LYDIA KOLEOSHO

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Personal Website (currently in development)

PROFILE

A self-motivated, hard-working, multi-lingual, STEM enthusiast and accomplished musician who enjoys taking on new challenges and learning new things. Able to understand different concepts and adapt accordingly with a core goal of success in all academic, professional and social engagements. Has an affinity for software programming and engineering, but also service for and communication with a variety of people. A very ambitious achiever who can lead and work with others, always positively contributing.

EDUCATION

University of Edinburgh – BSc Computer Science   *September 2022 – Present*
FIRST YEAR: Object Oriented Programming (OOP) with Java – A (88%); Calculus and its Applications – 94% coursework; Sociology (Private Troubles, Public Problems); Functional Programming with Haskell - B; Introduction to Linear Algebra - A; French Foundation Level 3 (CEFR B1) – A

King's College School, Wimbledon (KCS)   *September 2019 – May 2021*
International Baccalaureate (IBDP, 43)   **HL**: Maths (**7**), Physics (**6**), Spanish (**7**); **SL**: English (**7**), Economics (**7**), French (**7**)
- Maths EE Topic: *Quaternions and 3D Rotation - How are Quaternions used to simulate Smooth 3D Rotation and why they don't suffer from Gimbal Lock like other methods* (B)
- Maths IA (coursework): *Elliptical Curves, their Use in Cryptography, and why Elliptical Curve Cryptography (ECC) is Effective and Secure* (100%)

James Allen's Girls' School (JAGS) – Academic Scholar   *September 2014 – July 2019*
GCSEs (9-1)   Maths (**9**), Level 2 Further Maths (**A^ = A** = 9**), English Language (**9**), English Literature (**8**), Biology (**9**), Chemistry (**9**), Physics (**9**), French (**9**), Spanish (**9**), History (**9**), Music (**9**)

WORK EXPERIENCE AND INTERNSHIPS

Kubrick Group – Data Product Intern   July – Present
- Working to provide a more efficient, automated training onboarding process within the company for potential widescale implementation
- Training mirroring part of the official Data Product Consultant stream within the company
  - Atlassian Jira for Agile Development Practices; Microsoft Office, Power Automate, Power BI and Power Apps
  - Learning about stakeholder analysis (including Business Process Modelling and POPIT modelling, CATWOE); conducting interviews and liaising with pertinent stakeholders within the company; stakeholder engagement, communication for impact, requirements engineering, Excel skills
- Used Python (with OpenPyxl and Pandas modules), Object Oriented Programming, and large Excel-based datasets to automatically allocate groups based on multiple factors, including gender, degree subjects (in terms of eligibility for a technical role), and logic scores from assessments.

Prosper Social Finance (The UK's first SRI fund run entirely by students at the University of Edinburgh) – Financial Analyst   January – April 2023
- Analyst Training Programme: Learnt about socially responsible investment, with a focus on strategy, from an ESG and Business perspective, PSF's core values of Collaboration, Innovation, Integrity, Positive Social Impact and Transparency; accounting, and presenting financial analyses clearly with Excel
- Focused on Hong-Kong-based AIA with a small team (2 others), collating a full, 30+ page, ESG-focused investment proposal with executive, financial SWOT, Company Management, Industry, Competitor, Financial and Macroeconomic analyses. Created a 10-minute pitch with my team of 3 which we presented to an investment panel of industry experts, followed by several follow-up questions about the company and various wider, macroeconomic factors

Tutoring   January – May 2023
- One American Pre-calculus student, twice weekly
- One Spain-based English as a Second Language pre-IGCSE preparation student (my Spanish knowledge comes in handy at times), 2-4x weekly

Music Teaching – Piano and Saxophone (FIRST EXPOSURE TO INDEPENDENT MUSIC TEACHING)   February – July 2022
- Teaching 2 young students (ages 4 and 6) basic Piano weekly for 5 months, and teaching a 5-year-old student piano weekly for 2 months
- Teaching 15-year-old student Saxophone from scratch for 2 months

King's College International School Bangkok (new school, opened in 2020) – Gap Year Placement (worked with Years 6-10)   August 2021 – July 2022
- Marketing – 50% of time spent in the department. More information provided about this area of my work on my LinkedIn
- Part of the international school staff collaboration committee. More information provided about this area of my work on my LinkedIn
- Assistant teaching students Maths in two Year 6 classes (in English)
  - Leading intermittent 1-to-1 sessions with struggling students, working closely with the Learning Enrichment department to track and further their progress
  - Differentiating methods depending on skill levels and English abilities of students
  - Providing support with subject matter, communication skills; personalising teaching methods to each student
- Observing Computer Science for two Year 10 IGCSE classes (in English)
  - Reformatting information to provide resources for students' consolidation – Quizlets, worksheets, extension tasks, etc. - focusing specifically on language acquisition as the majority of students are EAL (have English as an Additional Language)
  - Teaching, correcting and supervising students' programming in Python; offering assistance, further examples, ways to increase the efficiency of code
    - Especially with students who join mid-way through the year (3 new students in term 3) – independently taught them the programming syllabus at an accelerated pace, ensuring understanding at every stage
- Re-vamped and independently led Digital Skills CCA (Co-curricular activity) for Year 7-9 students
  - Involved getting students to work in cross-academic-year teams to brainstorm, engineer, plan and pitch ideas to solve problems with technology. It was many of their first times taking an entrepreneurial project from start to finish, and they ended up with full presentations and compelling arguments.

STEMettes – Completing Live Tasks; Digital Intern   August 2020
Sat in on company-wide meetings; wrote a series of STEM-related articles for Zine (Stemettes' Blog), collating quotes and biographies from inspiring Women in STEM; took over their Instagram page for a day, answering questions about my STEM journey, tips and tricks

Vodafone – UX/UI Design Internship   February 2020
- Created a USERZOOM survey to collect unbiased data to back up our claims and suggestions in a project about Roaming (comparing Vodafone to its competitors and giving suggestions) – signed first NDA! Then, reviewed video and survey responses, collated data, and summarised them in a presentation for the department.
- Attended seminars on making presentations, UX/UI design (and A/B testing, tracking, etc.), the 5 stages of service blueprints, how equality and diversity are handled in the company, technical management and app development.
- Learnt about the jobs of back- and front-end developers.
- Took part in a HTML/CSS and JS hackathon with Front-End Developers (researched dark mode, its pros and cons, what the best practices and fonts are in terms of accessibility).

Fidelity (National) Information Services (FIS) - Enterprise Solution Software Development Internship   July – August 2019 *(2 weeks)*
- Researched, compiled and organised data for a brief about Cash Forecasting and compatibility between Google Sheets and Excel. Then, set up and held both online and in-person meetings about how to overcome certain issues and gaps in data.
- Attended meetings with and about large companies (e.g. Total) and projects regarding them; attended a large networking event for a company merger (FIS x WorldPay).
- Created a program (in Python) for scanning keys in the widely used software, "Quantum" (the treasury program used by FIS and multiple major companies).
  - Helped me to improve my communication skills and understand how important trial and error, asking for help, research and documentation of what the consumer exactly wants are in development.
  - My finished program was implemented in the company's system.
- Helped to create a virtual machine to test an algorithm for another company in C# (without prior experience with the language).
- Learned about Agile and Waterfall Software Development methods and how they are implemented.

REFERENCES AVAILABLE UPON REQUEST

SKILLS

- **Languages**   Conversational in Spanish (B2/C1), Basic-Intermediate French (B1), Native English speaker
- **Music**   Piano (Grade 8), Saxophone (Post-Grade 8), Theory (Grade 5),
- **IT Skills**   Intermediate level: Java, Python, HTML/CSS and JS (completed online courses in each); experience with SQL and Haskell, Git
- **Additional**   Touch-type (60-80 wpm), Food Safety Level 2 Qualification

INTERESTS AND ACHIEVEMENTS

2023
- HackUPC 2023 (Barcelona, UPC) – 36 hours – my team of 4 took on Vueling's challenge to create an in-flight, offline, multi-user experience, producing a hub of games, music, a chatroom emulating the chat feature from Nintendo's Pictochat and more. I was one of over 600 students participating and was flown out by the hackathon organisers to participate.

2022
- Inaugural Mercuria Hackathon (Switzerland) – 36 hours - Team placed 2nd/11. I was selected out of a pool of over 200 applicants and flown out to participate. Worked on 3 challenges related to helping to accelerate the energy transition and reduce the carbon emissions of the maritime industry: Monitoring, reporting and verification of CO_2 emissions; voyage route optimisation; and cargo logistics optimisation.
- Helped to lead King's College International School Bangkok's Senior School Orchestra

2021
- Conducted live panel and Q&A for entire senior school (Years 9-13) with Dr Charlie Easmon about race relations, specifically in the UK
- Came up with and led online event – movie night, meal and activities for families at King's College School, Wimbledon – to raise money for the Perseid Upper School, a Merton-based day school for learners with severe learning difficulties
- Read Hannah Fry's Hello World
- Read Jeremy Kubica's Computational Fairy Tales
- Part of Computational Thinking & Problem-Solving Club

2020
- Subscribed to MIT Technology Review
- Created School's First Afro-Caribbean Society (ACS)
- Appointed House, then Senior Prefect
- Awarded **Gold** in Senior Maths Challenge and Qualified for **Kangaroo** (follow-up round)
- Helped to create a website in Girls Who Code Club
- Finalist for the National UK Voice of GenZ CogX Award
- Part of small team of KCS Wimbledon's inaugural Engineering Magazine editors
- Author of article in inaugural edition of KCS Wimbledon's Engineering Magazine

2019
- Graduated from Student-to-STEMette Mentorship Scheme (mentor from Microsoft)
- Physics and Engineering Trip (Munich)
- Maths Extension club
- Built an air quality monitor in a small team for my school with Raspberry Pis
- Achieved **Silver** at National Senior Maths Challenge
- Reply Challenges Competition
- Duke of Edinburgh **Silver** Award
- CyberDiscovery Competition (twice): CyberAssess completed, CyberGame, Invited for CyberEssentials (for doing well in CyberGame)
- Student Investor Challenge (semi-final), top 10% of country
- Achieved **Gold** at National Intermediate Maths Challenge
- Received National Arkwright Engineering Scholarship after rigorous 4-stage process *(Initial application, 2-hour aptitude exam, 30-minute individual interview and wider interview day)*
- Created and became President of Mathematics Club (JAGS)

2018
- Alan Turing Competition
- Hans Woyda team (rigorous selection process for Mathematics team)
- CREST Discovery Award (Google AIY)

Sports
School first and second Netball team representation (2017-21), Hockey team representation (2016-19), Cross Country (2017-18), Rowing (2018), Climbing (2018), Dance Club (2017)

Music
Choir (10 years), (Symphonic) Wind Orchestra/Band (7 years), Saxophone Ensemble (5 years), Small Saxophone Group (Trio) (2 years), Saxophone (5 years), Piano (8 years)

VOLUNTEERING

Helped to lead STEM club in school, teaching younger years and helping them with projects	Sept. 2019 – July 2020
Helped at Open Days and guided prospective students around school	Autumn Term, 2019
Helped to organise and served lunch to the elderly and disabled members at the Disabled Peoples' Contact, held an arts and crafts afternoon (with NCS), took part in a 9-mile sponsored walk and raised awareness and money by giving away goody bags, water and leaflets in a popular London park	August 2019
Helped to organise a raffle and serve afternoon tea at a charity fundraiser for When You Wish Upon a Star	July 2019
Helped to organise and play in a concert for Nursing Home patients, and serve them afternoon tea	June 2019
Volunteered in a library (rearranged bookshelves, covered, stamped and organised books, admin, helped make posters for different events)	September 2018 – June 2019
Worked with Year 3 students to improve their literacy skills (SLS, JAGS)	September 2017 – May 2018
Supervised and mentored Year 9 Students in Maths	September – Dec. 2017
Took care of primary school children in Holiday Club at Church	2015 - 2018

COURSES AND EVENTS ATTENDED

Currently completing: **The Complete 2023 Web Development Bootcamp 2023 (UDEMY); IBM Programme in Front-End Web Development**

IBM SkillsBuild: Deliver Quality Work with Agility, Present with Purpose, Problems with Critical and Creative Thinking, Interpersonal Skills, Collaborate Effectively, SkillUp Front-End Web Development Foundation Course, Web Development Fundamentals [Web Development Basics, Developing Sites for the Web, Introduction to HTML and CSS, Bringing Websites to Life with JavaScript, Website Testing and Deployment, Develop an Interactive Task List Web Page, Your Future in Web Development: The Job Landscape]	June 2023
Codecademy Computer Science Professional Development course (101 and most of 102) (Python)	2022
HackUPC Hackathon	May 2023
Mercuria Hackathon	December 2022
Firetech Creative Digital Design Course with Adobe (Month-long), Firetech Teen Coding with Python 1 and 2 (more complex) Course (2 Weeks)	August 2020
Virtual Tech Camps Coding Apps with Java Course (1 Week)	July 2020
React JS Bootcamp (1 Week)	July 2020
CyberFirst Cybersecurity Course (2 Weeks)	July 2020
Online Youth vs Covid Hackathon (2 Weeks)	April-May 2020
Attended InvestIn Computer Science Day (ICL)	January 2020
Completed 2 online Intro to Robotics courses from Queensland University of Technology	November 2019
Smart Cities Meetup (Women in Tech Revolution)	November 2019
STEM Networking Event (*Stemettes*)	October 2019
Mozilla AI seminar and workshop	October 2019
MozFest (Mozilla Tech Festival) (2 days)	October 2019
Reply Challenge Cyber Security Challenge	October 2019
NCS (National Citizen Service)	August 2019
Future Summit STEM Day (Bank of America Merrill Lynch x *Stemettes*)	July 2019
HTML Hackathon and STEM Day ('Global' Radio Provider x *Stemettes*)	April 2019
Introduction to AI (coding Google AIY) + Hackathon (came 2nd out of 8 teams), 2-day course (came 2nd) (*Stemettes*)	October 2018
Mathematics Summer School, 5-day course (UCL x Debate Chamber)	August 2018
STEM Leadership, 1-day course (BAML x *Stemettes*)	July 2018
Physics in Engineering, 3-day course (Warwick University x Smallpeice), part of winning team of Fastest Car Challenge (Warwick x Bloodhound)	April 2018

REFERENCES AVAILABLE UPON REQUEST