Nischal Gurung

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Education

King's College London   **Sept 2023 - Present**
Bachelor of Science – Computer Science with a Year in Industry
Modules Taken: Computer Systems, Database Systems, Data Structures, Elementary Logic, Foundations of Computing 1, Programming Practice and Application, Intro. To Software Engineering, Intro. To Professional Practice

Jerudong International School   **Aug 2021 – June 2023**
A Levels
Subjects Taken: Further Mathematics (A), Mathematics (A*), Physics (A*), Computer Science (A*)

St. George's School   **Jan 2014 – Nov 2020**
GCSE
Subjects Taken: English (A*), Mathematics (A*), Additional Mathematics (A*), Biology (A*), Chemistry (A*), Physics (A*), Computer Science (A*)

Work Experiences

ZedSoft – Full Stack Developer Summer Internship ** **   July 2024 – Present
- Helped to test ZedSoft's state-of-the-art Ninja LIMS application with one other intern
- Demonstrated the ability to use Jest JS to accurately test over 30 functions in the development pipeline
- Learnt how to write documentation concisely and effectively for over 50 functions for testing purposes

AquaZoo Consulting Start-up – Software Engineering Summer Internship ** **   May 2024 – July 2024
- Worked on Animal Image classification using Python, TensorFlow Lite and iNaturalist Dataset
- Demonstrated the ability to use python library, pandas, to clean and preprocess 10000 images before training of neural network
- Collaborated with 8 other interns to work together on 7 tasks and deliver solutions within a deadline using SCRUM methodology
- Cultivated the ability to quickly learn new technologies and concepts to contribute to the final application

Projects

Terminal snake game
- Built a snake game for Windows terminal using Python
- Modularised over 200 lines of code into functions and files for readability and easier maintenance
- Demonstrated ability to effectively integrate over 10 distinct functions across files into a main file to run the game

Wi-Fi Security Vulnerability
- Identified a security vulnerability in my school network, where exploitation of such vulnerability would have resulted in over 1600 students' Gmail account passwords to be revealed and personal information to be compromised
- Gained an understanding of detecting network security vulnerabilities
- Reported and helped network administrators to mitigate the issue by suggesting the usage of WPA2 protocol

Skills

- Python, Java, SQL, C, Git, JavaScript (Beginner)
- G-suite, Power Point, Word, Jira
- Languages: English (Fluent), Nepali (Native)

Extracurricular & Certifications

- Coding Quest Competition: Placed 20th globally against approximately 250 students (2022)
- Participated in KCL BioHackathon 2024 | Participated in HackLondon hackathon 2024 | Participated in JP Morgan Code for Good Hackathon 2024 | Participated in Headstarter AI Software Engineering Fellowship 2024
- Google Developer Group Mentee 2023 spring and 2024 summer cohort | Committee member of KCL Quantum Information Society
- Participated in JP Morgan Spring into Tech Programme (2024)
- UKMT Senior Maths Challenge: Bronze medal (2021), Silver medal (2022)

(**) References available upon request