Yunus Sahli

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Education

Nottingham Trent University *Sept 2022 – May 2026*
MComp (Hons) in Computer Science

- **Predicted**: First Class
- **Relevant Modules:** Advanced Software Engineering, AI and ML, Service-centric and Cloud Computing.

Experience

Software Engineering Spring Intern *Chester, UK*
Bank of America *April 2024 – April 2024*

- Achieved **1st** place in a cybersecurity challenge, an interactive puzzle-solving activity, attaining the fastest solution time
- Engaged in an AmplifyMe tech simulation, an immersive learning experience that deepened my understanding of financial operations within banking.
- Participated in a technology analyst simulation, working in a team to tackle fast-paced, real-world challenges under tight deadlines.

Software Developer *Nottingham, UK*
Nottingham Consulting Network *Nov 2023 – Feb 2024*

- Designed a management system for a client, to optimise business operations and simplify client data management, integrating efficient data structures and algorithms.
- Utilising Python for backend logic and message queues for asynchronous data processing.
- Developed a scalable SQL database, utilising complex queries such as JOINs, aggregations, and subqueries to enhance data retrieval and reporting.
- Created a responsive frontend utilising HTML5, CSS3, JavaScript, and AJAX, and integrated real-time data visualisation with Matplotlib and Chart.js for easy engaging analysis.

Lighting Technician *Leicester UK*
Soane Britain *June 2023 – Sep 2023*

- Collaborated in a team of 5 technicians producing tens of thousands of luxury lighting products monthly, using a CLARE tester for continuity, polishing brass components, and assembling, wiring, and testing lighting per BOM specifications.

Technical Projects / Hackathons

AI-Powered Personalised Financial Planner with Biometric Login | Python, OpenCV, React

- Integrated facial recognition with OpenCV and deep learning TensorFlow/Keras to enable secure biometric authentication, and implemented machine learning algorithms in Python for AI-driven financial analysis.
- Built a responsive user interface using React framework to ensure efficient management and seamless interaction necessary for real-time investment decision-making.

Weather and Air Quality Forecasting System | C++, SQL, Firebase

- Designed a robust, user-friendly, comprehensive weather and air quality forecasting application using C++.
- Developed using object-oriented programming and API integration, provides real-time, reliable data from environmental monitoring APIs, enhanced by error handling and data validation to ensure accuracy.

Graphical Calculator | C++

- Developed a user-friendly graphical calculator application using C++ and SDL library, providing an intuitive interface for complex mathematical calculations and function graph visualisation.

HackNotts

- Participated in workshops with Intel, Capital One, and Frasers, gaining expertise in Intel's oneAPI and utilizing Intel Developer Cloud and various toolkits to optimise project workflows.

Hack-a-Duck

- I attended a Capital One workshop, gaining insight into their API, and used it along with Python, HTML, CSS, JavaScript, Bootstrap, and React to develop a financial management website with budgeting tools and a seamless UI.

Languages and Technologies

Python; C++; Java; JavaScript; MATLAB; SQL; PHP; Flask; Qt; React; Pandas; Pyspark; Matplotlib; C#; .NET;