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EDUCATION

Lancaster University –
BSc Computer Science First Class with Hons (2022 - 2025)

Minored in Mathematics

Key Modules: Distributed Systems, Operating Systems, Security & Risk, Computer Networks & Artificial Intelligence, Embedded Systems

Northampton School for Boys – *GCSEs & A-Levels (2015-2022)*

A-Levels: AAB

GCSEs: 6x Level 8; 4x Level 7

SKILLS

Languages: C, C++, Java, Python, MIPS Assembly

Web: React.js, TypeScript, HTML/CSS/JavaScript, PHP, MySQL

Data & ML: Pandas, NumPy, scikit-learn, OpenCV, MATLAB, Database Normalisation, SQL

Systems: RAFT Consensus (using Java RMI), Concurrent/Multi-Threaded Programming

Embedded Systems: Bare-metal C/C++, ARM Microcontrollers, Firmware Development, Interrupts (ISRs and GPIO)

Tool/Methodologies: Linux, Git, Agile Development, UI/UX Usability Testing, Teamwork, CI/CD

Spoken Languages: English (Native), Gujarati (Proficient)

ACTIVITIES

Lancaster University Hindu Society – **General Secretary:**
Oversaw large-scale event planning and logistics and managed compliance

Hobbies: IoT Automations, Maintaining Home Network, Cricket, Badminton and Reading

Brijesh Savjani

Software Engineer

PROFILE

Recent First-Class Computer Science graduate specialising in full-stack development. Experienced in identifying key operational bottlenecks and delivering automated technical solutions. Able to quickly learn and apply new technologies. Strong in React, TypeScript, C/C++ and Python as evidenced by an extensive GitHub Portfolio.

EXPERIENCE

Urban Trading Group LTD – *Applications Engineer (SEPT 2025 - PRESENT)*

- Engineered a highly concurrent scalable keyword tool with a vectorised multi-lingual NLP pipeline to provide high-quality data-driven insights using spaCy, Playwright, Pandas, scikit-learn and NumPy
- Built a P&L dashboard that downloaded, parsed and verified 700 Amazon reports to provide data-driven insights using Python, Pandas, DuckDB and Dash
- Identified and removed areas of client frustration using technical solutions (e.g: an algorithmic pricing engine which slashed calculation times from hours to seconds)
- Integrated and maintained a repricing solution across international marketplaces
- Upgraded and managed internal network to add features and improve security
- Helped manage ecommerce operations (e.g: PPC campaigns and listing optimisation)
- Documented technical procedures to allow for consistent execution

Urban Trading Group LTD – *Ecommerce Analyst (JUNE 2020 - SEPT 2020)*

- Automated procedures within Linnworks, designed and deployed marketing elements

Education Options – *Part Time Teaching Assistant (NOV 2020 - SEPT 2022)*

PROJECTS

Dissertation – *Refactoring and modernisation of a legacy bioinformatics tool*

- Translated a tool widely used by molecular biologists (SDM-Assist) from an ageing AS3 codebase into a modern, scalable web app (React, TypeScript and Redux based)
- Designed bespoke architecture to allow me to port to a Jupyter-lab extension
- Reverse engineered and ported core bio-informatics algorithms into TypeScript, whilst refactoring the OOP architecture to improve readability and maintainability
- Self-managed project using agile methodologies, by directly communicating with the former lead developer to receive feedback on sprints and missing features
- Worked with an extensive suite of libraries and development tools (such as Jupyter-lab, Material-UI, Slate.js & Redux) and used Yarn resolutions to manage package conflicts

Decision Review System (DRS) For Cricket – [github.com/BrijeshSavjani/DRS]

- Developed a multi-input DRS system using OpenCV, Python & Matplotlib that can track balls in 3D space, predict their future path and plot outcomes on a 3D graph
- Employed a Kalman Filter, built from first principles in NumPy, in conjunction with Nearest Neighbour Data Association to effectively track the ball
- Used statistical methods such as Normalised Innovation Squared and Chi-Squared hypothesis tests to boost final prediction accuracy to $\pm 3.5\text{cm}$ (half of a ball's width)
- Robustly isolated ball with multiple techniques including: Machine Learning, Background Subtraction, Denoising & luminosity independent colour ranges

Group Project – *Java Presentation Software*

- Planned, designed and built a presentation software with a 5-person agile team using Java & Swing
- Implemented core features such as the rendering engine, presentation mode, serialisation, z-indexing (layering) and menus.
- Managed project's Git workflow, resolved complex merge conflicts and coordinated branch integration
- Provided debugging support and assisted in decomposing complex features into manageable components, helping the team deliver across multiple milestone releases