Aarav Bhatt

Student/Software Engineer

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About me

Creative and driven student at Cambridge University with over 10 years of programming experience building projects to hone on my skills.

Passionate about compilers and PL theory, probabilistic machine learning, and systems. I love solving challenging problems, building tools from scratch, and working in a team to bring ideas to life.

Technical skills

Frontend Development

Flutter | Next.js | Javascript | Typescript | Vercel | Swift

Backend Development

Python | Django | Flask | Haskell | Servant | C/C++ | Java | OCaml

Databases

MySQL | SQLite | Hive | PostgreSQL | TinyDB | Neo4j

Data Science

Tensorflow | Pytorch | Scipy/Sci-Kit Learn | Python | Numpy | Pandas

Tools

Linux | Git/Github | Docker | Azure | GCP

Methodologies

Kanban | Agile | SOLID

Achievements

Projects

- Tessera - A constraint-based tiling window manager for MacOS that uses a custom DSL to configure tiling preferences - involved in a interaction design research study - 2026
- A typing app where users input text by tracing the outline of each character over the keyboard - 2025
- An online poker game played on the terminal, using sockets to play mini-tournaments with friends - 2025

Awards

- Placed 3rd in Cambridge Game Jam (2025): built a platformer where you have to distribute energy over abilities.
- Hack@CHES finalist - Top 9 Globally (2025): A CTF involving finding bugs and exploits in the OpenTitan SoC system-verilog code.
- Won £500 of Claude Credits in Anthropic Buildation (2025): I made a cellular-automota inspired game with the help of AI.

Experience

AI Transformation Engineering Summer Intern @ BlackRock — *2026*

Developed an internal benchmark for AI coding assistants.

- Scraped Azure Devops to create a database of programming challenges, and used data science techniques to estimate their difficulty.
- Developed an virtual environment and harness to test coding agents and harnesses
- Created an evaluation metric combining LLM-as-a-judge with deterministic correctness tests, and used data modelling to extract useful results.

Web Developer @ Lucy Cavendish Law Journal — *2025 — current*

I developed the Lucy Cavendish Law Journal website, lclj.org, using Next.js.

- Collaborated with the Law Journal team to design a formal, elegant, and intuitive interface for the site.
- Developed a maintainable system that will be built-upon and extended for many years to come.

Software Engineering Summer Intern @ Ethicronics — 2025

Part of the RnD team, leading automation of data collection via OSINT, and using tools to present data.

- Architected and implemented AI solutions to automate webscraping using OSINT techniques from over 1000 websites.
- Competed in the Hack@CHES cybersecurity hackathon, making it to the final stage (globally).
- Organized business events and socials using LUMA.
- I was featured on a news article by Lucy Cavendish College.

Education

2024-2027 **Cambridge University** — Cambridge, UK

B.A. in Computer Science Tripos

- Rank: 42/132, Projected 1st Class
  Ranked 1st in cohort in Data Science and 2nd in Programming in C and C++.
- Activities: LC Computer Science Society (President), LC Poker Society (VP), Web Dev and Master of LC Law Journal, LC Div 1 Badminton Team

2019-2024 **Gosforth Academy** — Newcastle Upon Tyne - UK

*A*A*A*A* in Maths, Further Maths, Computer Science, Physics*
99999999998 in GCSEs))