Athena Chong

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GitHub Portfolio

Programming Languages: Python, HTML, CSS, JavaScript, TypeScript, Java, C, C++, SQL
Frameworks: React.js, Flask, Django, Jakarta Servlet, JSP
Tools: VS Code, GitHub, IntelliJ Idea, Eclipse, Maven
Languages: English (Fluent), Cantonese (Fluent), Mandarin (Fluent), Spanish

PERSONAL PROFILE

An innovative engineer with exceptional problem-solving ability and foundational knowledge in Python, Java, and C++. Possesses a proven ability to own projects end-to-end, demonstrated through multiple prize-winning hackathon projects in AI and full-stack development. A highly collaborative team player who thrives in fast-paced environments by sharing ideas and fostering an inclusive, innovative culture. Eager to leverage a diverse technical skill set to develop impactful digital applications and systems that serve millions globally.

EDUCATION

University College London **London, United Kingdom**
BSc in Computer Science (Year 2) Sept 2024 – Jun 2027
- First-class average – 77% (Year 1)

Wimbledon High School Sept 2020 – Aug 2024
- A-Level: 4A* (Maths, Further Maths, Phy, Chem)
- GCSE: 10A* (English Lang, English Lit, Spanish, Mandarin, Maths, Phy, Chem, Bio, Geo, Drama)
- Academic Achievement Award in Year 12 and Year 13

WORK EXPERIENCE

University College London **London, United Kingdom**
CS Outreach Ambassador Feb 2025 – Present
- Delivered CS education and recruitment initiatives to **328+ students** across 4+ events, including school visits, open days, and summer programs
- Created and presented personalized journey presentation to **20 Year 12 students** at Excelsior Academy, covering project experiences and challenge resolution in CS
- Mentored 28 students during week-long UCL CS summer school, facilitating coding workshops and hands-on thermometer programming projects

JPMorganChase, London, United Kingdom **London, United Kingdom**
Spring Insights Programme (Software Engineering) 7 Apr 2025 – 11 Apr 2025
- Engineered a full-stack charity web platform using **React.js** and **Python Django**, facilitating live content management and donation processing, during 2-day hackathon, collaborating in cross-functional team environment
- Participated in intensive software engineering workshops covering cybersecurity, **test-driven development**, **agile methodology**, and algorithms

TECHNICAL PROJECTS

F1 Jarvis Granite | UCL & IBM – Python, IBM Granite Oct 2025 – Mar 2026
- Developed a specialized AI race engineer capable of delivering **real-time strategic advice** by **fine-tuning IBM Granite-4.0-micro** using **QLoRA**
- **Built an end-to-end data pipeline** in Python to process and align timestamped **F1 car telemetry** with **team radio communications** transcribed from audio using Whisper
- Collaborated with IBM Master Inventor, John McNamara, and UCL professor, Stephen Hilton, to define domain-specific requirements for F1 telemetry analysis and align advanced LLM capabilities with real-world race engineering insights

Anagolay | Minerva's Hack Top 4/12 Teams – Python Flask, HTML, CSS, JavaScript Jan 2025
- **Developed React.js lost-and-found platform** addressing campus belongings recovery through centralized reporting system with AI-powered matching using NLP and image recognition
- **Built responsive item submission forms and authentication pages** integrating Firebase database and RESTful APIs to enable secure cross-verification between finders and owners

Racquet Research Paper | Young Scientist Journal of Vanderbilt University Sept 2022 – May 2024
- **Authored peer-reviewed research paper** "The Impact of Converting Break Points on Match Success in Elite Female Tennis Players" published in Young Scientist Journal of Vanderbilt University (May 2024)
- **Analyzed 30,850 break points from Wimbledon Championship data (2004-2019)** using Excel pivot tables and statistical analysis to identify performance patterns in elite tennis
- **Discovered significant performance differential** showing winning players convert 50-60% of break points vs. 20-40% for losing players, providing quantitative evidence for psychological pressure theory

WORK PERMIT: Right to work in the UK granted by Indefinite Leave to Remain; Hong Kong permanent resident status