Oscar Fu

Software Developer

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About me

I am a passionate and inquisitive student currently taking a gap year to gain industry experience before beginning my Computer Science degree in University of Nottingham in September 2026. I have a strong interest in FOSS and Unix-like operating systems, particularly Arch, Alpine, and Gentoo Linux. My journey into software development began with experimenting in Java to recreate games and later deepened through learning C, where I explored how programs operate at a low level by developing custom CLI tools. This hands-on experience strengthened my understanding of systems, memory management, and performance optimisation.

Alongside systems programming, I enjoy building modern web applications using TypeScript and JavaScript, creating tools like Pastebin and URL shortener. I am eager to continue growing as a software engineer, focusing on Linux systems and backend development, with an emphasis on writing efficient, maintainable, and well-structured software.

Technical skills

🗂 Frameworks
React   Next.js

</> Languages
TypeScript   JavaScript   C   POSIX Shell
Python   HTML   CSS   SQL   Java   Kotlin

🛠 Tools
Linux   Git   OpenSSH   GnuPG
Neovim/Vim   MongoDB   Maven   Gradle
QEMU (PCI passthrough)   Nginx   SQLite

☁ Cloud
Vercel   Netlify

Awards

- 🏆 UK Intermediate Maths Challenge — Silver
- 🏆 UK Senior Maths Challenge — Bronze
- 🏆 Racketlon East Midlands Open 2024 First Timers - 2nd
- 🏆 Racketlon Stamford Open 2024 Men's D - 2nd

Education

University of Nottingham   *Sep 2026 -*
BSc Computer Science

A Level — Nottingham University Academy of Science and Technology   *Sep 2023 — July 2025*
Maths (A*) · Computer Science (A) · EPQ (A) · Further Maths (B) · Physics (B)

GCSE — Nottingham High School   *Sep 2021 — July 2023*
Computer Science (9) · Further Maths (A) · Maths (9) · Physics (9)

Projects

zsm
End-to-end encrypted chat protocol and messaging application with a focus on security and decentralization.

ccc
Fast minimalist TUI file manager written in C, optimized for speed and size.

apm
Lightweight `pass(1)`-style password manager.

Cath
Popular npm package for utility functions — 8000+ downloads.

NXC Host
Next.js web platform providing file hosting, URL shortener, and pastebin services.

NYX (cath.exe)
Discord bot for CODM stats — deployed in 1100+ servers.

Lilase
Minecraft mod for auction flipping — 3000+ downloads.

90s
Minimalist, dependency-free shell with syntax highlighting and customizability.

bob
Binary-only package manager designed for simplicity and portability.

Work Experience (References on request)

ONYX Insight   *July 2023*
- </> Tested Python scripts
- ▦ Organized data in Excel

Devtank   *July 2024*
- </> Reviewing codebase and made contributions
- 🐧 Working in Linux environment

Interests

- 〉_ Building own software
- ⚙ Optimizing compilers
- 🐧 Developing in Unix-like systems
- 🔒 Online privacy & Cryptography
- 🏓 Racket sports: Tennis, Squash, Badminton, Table Tennis

Volunteering

NSPCC Charity Tennis Tournament   *August 2022 & 2024*
Assisted in organizing and running the event, supporting participants and ensuring smooth operations throughout the tournament.

Tennis Coach Assisstant   *2022 - Now*
Guide and supervise young players learning tennis.