Oscar Fu

Software Developer

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 night0721

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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 at the 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 - July 2029*

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 (Available on Github)

zsm

End-to-end and decentralised encrypted chat protocol and messaging application.

ccc

Fast minimalist TUI file manager written in C, optimised 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.

Work Experience

ONYX Insight	*July 2023*

- </> Tested Python scripts
- ▦ Organized data in Excel

Devtank	*July 2024*

- </> Reviewing codebase and made contributions
- 🐧 Working in Linux environment

References

Isabelle Bramhall (Character Reference)   Phone: 07834 588614 Email: bramhall52izzy@gmail.com

BA(Ed) Honors University of Exeter and LTA Accredited Level 4 Tennis Coach

Michelle Wraighte (Work Reference @ ONYX Insight)   Phone: 07918 130741 Email: michelle_fanyi@yahoo.co.uk

Joe Burmeister (Work Reference @ Devtank)   Phone: 07787 770764 Email: joe.burmeister@devtank.co.uk

Volunteering

NSPCC Charity Tennis Tournament	*August 2022 & 2024*

Assisted in organising 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.

Interests

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