

Oscar Fu

Aspiring Backend Developer

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About me

I am a passionate and inquisitive student (with BNO Visa) currently taking a gap year looking for internships, part-time or full-time work 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 (<https://github.com/night0721/zsm>)

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

ccc (<https://github.com/night0721/ccc>)

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

apm (<https://github.com/night0721/apm>)

Lightweight pass(1)-style password manager.

Cath (<https://github.com/night0721/cath>)

Popular npm package for utility functions – 8000+ downloads.

NXC Host (<https://github.com/night0721/nxc-host>)

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

NYX (<https://github.com/night0721/cath.exe>)

Discord bot for CODM stats – deployed in 1100+ servers.

Lilase (<https://github.com/night0721/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

Website Manager

2025 - Now

Maintain and update the Racketlon UK website.

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 Assistant

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