

# Oscar Fu

## Software Developer

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## About me

I am a passionate and inquisitive student 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

BSc Computer Science

Sep 2026 - July 2029

### A Level — Nottingham University Academy of Science and Technology

Maths (A\*) · Computer Science (A) · EPQ (A) · Further Maths (B) · Physics (B)

Sep 2023 — July 2025

### GCSE — Nottingham High School

Computer Science (9) · Further Maths (A) · Maths (9) · Physics (9)

Sep 2021 — July 2023

## 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

### 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