

Millen Singh

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PROFILE

Second-year Computer Science student at Ulster University seeking a Software Engineering placement for September 2026. Full-stack developer with hands-on experience building production web applications using Next.js, TypeScript, and React. Demonstrated ability to ship real products. Strong foundation in backend systems, databases, and API integration.

SKILLS

Languages: TypeScript · JavaScript · Java · C# · Lua · SQL · HTML · CSS

Frameworks: Next.js · React · Node.js · Tailwind CSS

Databases: MySQL · MongoDB · PostgreSQL

Tools: Git · GitHub · VS Code · IntelliJ · Vercel · Docker

PROJECTS

Better PDF — better-pdf.com

2025

TypeScript · Next.js · React · PDF.js · Tailwind CSS

- Built and launched a privacy-focused PDF toolkit for merging, compressing, signing, and watermarking
- Engineered 100% client-side processing ensuring user privacy with zero server uploads
- Implemented drag-and-drop file handling, real-time preview, and batch processing
- Deployed on Vercel with automated CI/CD pipeline from GitHub

Portfolio Website — millen.sh

2025

Next.js 16 · React 19 · TypeScript · Tailwind CSS · GitHub API

- Designed and developed a modern, responsive portfolio showcasing projects and skills
- Built custom canvas-based particle system optimised for smooth 60fps animations
- Integrated GitHub REST API to display live repository statistics with error handling
- Implemented dark/light theme with local storage persistence

Minecraft Server Plugins

2023 — Present

Java · Spigot API · MySQL · MongoDB · Maven

- Developed custom plugins enhancing gameplay for online gaming communities
- Implemented player commands with YAML configuration system
- Designed database schemas and integrated MySQL/MongoDB for persistent data
- Applied OOP design patterns ensuring maintainable codebase

FiveM Game Scripts

2024

Lua · QBCore Framework

- Developed multiplayer game scripts for FiveM roleplay servers
- Created player utility commands with permission systems
- Implemented client-server event handling for real-time synchronisation

EDUCATION

Ulster University, Derry~Londonderry

2024 — 2028

BSc (Hons) Computer Science with Diploma in Professional Practice

Year 2 (In Progress): Object-Oriented Programming · Mobile App Development · User Experience Design · Networks & Security · Cloud Computing · Algorithms & Data Structures

Year 1 Results: Database Systems (73%) · Software Development II (72%) · Computer Hardware & OS (67%) · Software Development I (65%) · Systems Analysis & Design (61%) · Mathematics for Computing (43%)

Current Average: 63.5% (2:1 Classification)

EXPERIENCE

Open Source Contributor

2024 — Present

- Contributing to open-source projects and building public repositories on GitHub
- Collaborating with developers on code reviews and feature implementations
- Maintaining personal projects with proper documentation and version control

CURRENTLY LEARNING

- **Cloud Infrastructure (AWS)** — Exploring EC2, S3, Lambda, and serverless architecture patterns
- **AI/ML Integration** — Building applications with OpenAI API and understanding prompt engineering
- **System Design** — Learning scalable architecture, caching strategies, and database optimization
- **AI-Assisted Development** — Using Claude AI and Cursor to accelerate coding workflows and embrace modern development practices
- **Industry Mentorship** — Receiving guidance from a Senior Engineer at Vercel on modern web development practices and career growth
- **Testing & CI/CD** — Exploring unit testing, integration testing, and continuous deployment pipelines

ADDITIONAL

Strengths: Problem-solving · Quick learner · Attention to detail · Self-motivated · Collaborative · Adaptable

Interests: Software development · Web technologies · Game modding · Open source · Fitness

Languages: English (Native) · Punjabi (Conversational)

Availability: 12-month placement from September 2026 · Full UK driving licence

REFERENCES

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