Guneet Aggarwal

guneetaggarwal@gmail.com • guneet.dev • linkedin.com/in/guneet-aggarwal • github.com/guneet-xyz

Experience

Software Engineer *Bengaluru, India*
Microsoft *July 2025 – Present*

- Developed and maintained **C#** and **.NET** REST APIs spanning **50+ endpoints** for **Azure Local**, a platform bringing Azure capabilities to locally hosted infrastructure, within **Microsoft Sovereign Cloud**.
- Implemented backend APIs for customer-facing capacity allocation objects, enabling cloud owners to offer local infrastructure resource pools to different customers.
- Owned development of a microservice coordinating **1,000+ concurrent long-running operations**, using resilient state management and queue processing.
- Integrated a new notification event type into a **pub/sub** status computation microservice processing **2,000 notifications per second** typically and **100,000+ per second at peak**, using **gRPC** and caching layers.
- Investigate production issues and perform **root cause analysis** using **KQL** and internal monitoring tools; maintain **20+ Azure DevOps pipelines** for **CI/CD**.

Software Engineer Intern *Bengaluru, India*
Microsoft *May 2024 – July 2024*

- Integrated a task execution and scheduling framework now used by **more than 5 sister teams** for recurring workflows.
- Migrated **2 tasks**, including a telemetry task, to the framework, replacing manually assembled workflows with a reusable execution path.
- Collaborated with **3 teams** to gather requirements, incorporate feedback, and deliver the implementation using **C#**, **.NET**, **PowerShell**, **Kubernetes**, and **Docker**.
- Earned a **full-time software engineer return offer** based on internship performance.

Education

Delhi Technological University *Delhi, India*
B.Tech in Information Technology *December 2021 – May 2025*

- Graduated with a GPA of **9.16/10**, ranking in the **top 5%** of the class.
- Secured **2nd** place among **60+** teams in a college hackathon.
- Studied **Data Structures and Algorithms**, **Operating Systems**, **Database Management Systems**, **Computer Networks**, and **Software Engineering**.

Projects

DTU Archive

- Created a full-stack **Next.js** and **ReactJS** application with a **MySQL** relational database to explore course information and results for **10,000+ students**.
- Wrote **SQL** queries with joins and common table expressions to analyze student results across **500,000+ exam scores**, and used **TypeScript** and **Prisma** for application data.

EasyShell

- Built **4 microservices** for a browser-based shell practice platform, covering terminal session management, submission queues, and the entry point.
- Provisioned isolated terminal sessions using **TypeScript**, **Go**, and **Docker**, supporting up to **100 concurrent sessions**.
- Implemented automated submission evaluation alongside live terminal sessions for practicing shell commands.

Skills

Programming Languages: C#, Python, Java, TypeScript, JavaScript, Go, SQL, C, C++, PowerShell

Technologies: .NET, FastAPI, Django, Spring Boot, Azure, Kubernetes, Docker, Next.js, React, HTML, CSS, PostgreSQL, MongoDB, MySQL, TailwindCSS

Development Tools: Git, GitHub Actions, Azure DevOps, Bicep, KQL, Linux, Shell Scripting, Helm

Agentic Development Tools: OpenCode, Claude Code, GitHub Copilot

Engineering Practices: Unit Testing, Integration Testing, Test-Driven Development, Code Reviews, Agile, Object-Oriented Programming, Design Patterns

Other Skills: Infrastructure Management, Distributed Systems, Backend Development, REST APIs, Web Automation, RegEx