

# Mayank Gautam

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## EXPERIENCE

### SIEMENS HEALTHINEERS | SOFTWARE DEVELOPER

August 2021 – Current | Bangalore, India

#### Next Generation Lab Data Manager

- Designed and implemented shared UI modules (auth, routing, messaging) and the host app in a **micro-frontend** architecture, enabling **25+ production workflows**.
- Built a UI generation framework, **reducing template code by 40%** and improving developer velocity.
- Developed tooling to auto-generate **mock APIs from OpenAPI specs**, reducing frontend-backend coupling and increasing sprint throughput by **20%**.
- Prototyped a WebRTC-based **screen-sharing tool**, eliminating reliance on external software for internal support operations.

#### Chat Application For Medical Data

- Built and scaled full-stack features for a **medical imaging chat platform** serving clinicians across **Asia and Europe**.
- Implemented **cross-tenant imaging data sharing**, enabling the **onboarding of multiple enterprise clients**.
- Improved the internal E2E testing stack, **eliminating flaky tests** and **reducing test runtime by 20%**.

#### Streamlining Deployments

- Built a deployment framework to streamline **on-premise deployments**.
- Delivered the first production release **within a quarter**, driving adoption among **10+ product deployment teams**.
- **Reduced customer downtime by 25%** through improvements in package distribution and deployment processes.
- Extended internal orchestration solution to support single-node deployments, **reducing compute requirements** for testing pipelines **by 50%**.

## PROJECTS

### CHAT D | PYTHON, FASTAPI, SQLITE, HTMX, WATER.CSS, GEMINI API

2026

- Developed a chat application supporting conversational AI and agent workflows for tasks such as low-level design problem solving.
- Built a lightweight chat client-server system with a Python-based validation pipeline for LLM-generated outputs.

### YET ANOTHER KILO | C (98)

2025

- Implemented a terminal based text editor with zero external dependencies.
- Yet Another Kilo has been inspired by "antirez's kilo" editor, extending its syntax highlighting and searching capabilities.

## SKILLS

### PROGRAMMING LANGUAGES

C# • Python • TypeScript  
JavaScript • Java • C • C++

### LIBRARIES/Frameworks

Angular • React • Node.js  
Express • NestJS • FastAPI  
ASP.NET Core • NUnit  
Jasmine • Karma • Cypress

### DATA SYSTEMS

Redis • PostgreSQL • SQLite •  
Azure Event Grid

### INFRASTRUCTURE

Docker • Kubernetes  
Supabase • Firebase  
Azure

### OTHERS

HTML • CSS • SCSS  
UI/UX Development  
Microfrontends • WebRTC  
Shell • Powershell • Ansible  
Git • CI/CD Pipelines  
Rest APIs • Microservices  
OAuth • Distributed Systems

## EDUCATION

### NATIONAL INSTITUTE OF TECHNOLOGY, HAMIRPUR

Bachelor of Technology,  
Department of Computer  
Science and Engineering

2017 - 2021 | CGPA: 8.67

## OTHER ACTIVITIES

### COMPETITIVE PROGRAMMER

Leetcode Knight  
Codeforces Expert

### OPEN SOURCE CONTRIBUTOR

p5.js-web-editor  
ccsearch-browser-extension