

# Parikshith Saraswathi

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## Professional Summary

Software Engineer with 3 years of experience in building scalable **C#/.NET** object-oriented frameworks and **CI/CD** pipelines. Proficient in optimizing **SQL** queries and developing **REST APIs** for high-volume enterprise applications. Additionally, I am proficient working with **Linux** systems and collaborated across **multi-departmental teams** to conceptualize, produce, and deploy viable systems. Currently pursuing MS in CS with a focus on Software Design & AI.

## Skills

- **Languages:** C#, Python, Java, C++, SQL, HTML & CSS, JavaScript, React, Next.js.
- **Core:** Object-Oriented Programming (OOP), REST APIs, Data Structures, CI/CD Pipelines, .NET.
- **Tools:** Git, Azure DevOps, Docker, Postman, Supabase, Linux, Agile.

## Education

**Purdue University**, Master of Science in Computer Science | GPA – 4.0

*Expected Graduation - 2027*

Related coursework – Programming language interface, Software Design, AI Safety, Computer Vision, Operating Systems, AI Agents, Natural Language Processing.

## Work Experience

### Epicor

**Bengaluru, India**

#### Product QA Developer

*Aug 2022 - Aug 2025*

- Built a modular OOP framework in **C#/.NET**, by applying advanced design patterns to streamline logic reuse and improve system maintainability by 40% while strengthening overall system reliability.
- Developed a Python-based **Azure AI** solution to auto-generate code templates, significantly reducing scripting time and accelerating engineering workflows.
- Championed **Agile** methodologies across three teams, facilitating 30+ on-time system releases and improving cross-departmental communication to streamline product development and deployment processes.
- Recognized with “**Star Performer – Q2 2024**” and “**Employee of the Month**” (2x) for impactful engineering work that strengthened system performance, code quality, and release reliability.

### Epicor

**Bengaluru, India**

#### Product Developer Intern

*Jan 2022 - Aug 2022*

- Constructed an Azure DevOps **CI/CD** pipeline that builds and upgrades databases automatically, improving deployment consistency and slashed manual overhead.
- Implemented **REST APIs** with **MSSQL** integration, tuning slow queries and resolving CORS errors to enhance system responsiveness and stability.

## Projects

### Edge-Native Real-Time Whiteboard | <https://parikshith-s.github.io/Edge-Native-Whiteboard/>

- Architected a global, **real-time whiteboard** using React and Cloudflare Workers which achieved sub-50ms latency for multi-user sessions by leveraging edge-native WebSocket's.
- Engineered a **low-latency synchronization engine** that manages drawing broadcasts and manages connectivity issues to keep client states consistent.
- Optimized **backend performance** using Hono on serverless edge compute, removing cold start delays and speeding up response times for international traffic.
- Modeled **high-throughput data schemas in Turso/Neon**, optimizing the database to ingest high-frequency drawing events for persistent storage and session replay.

### Multi-Tenant Team Subscription Tracker

- Used **Next.js** and Clerk Organizations to build a **multi-tenant SaaS**, ensuring strict separation between different companies' data and usage metrics.
- Coded invitation flows and **RBAC permissions** (Admin vs. Employee), allowing organizations to securely onboard team members.
- Secured data at the source with Supabase **Row Level Security** (RLS), defining database policies that strictly block cross-organization queries.
- Integrated Stripe billing to app logic, using **webhooks** to automatically grant or revoke feature access based on subscription status.

## Hobbies

- Problem-Solving Puzzles (Sudoku, Rubik's Cube)
- Stargazing
- Simulation & VR/AR Design