Sejal Khedekar

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Education

Arizona State University (GPA: 3.90/4.0) **Aug 2024 – May 2026**
M.S. Software Engineering - Data Structure and Algorithms, Software Verification/Validation/Test Tempe, AZ

University of Mumbai (CGPA: 9.43/10.0) **Aug 2018 – May 2022**
B.E. Computer Science Mumbai, India

Technical Skills

Languages: Java, C#, Python, JavaScript, SQL
Backend: ASP.NET MVC / .NET Core, Spring Boot, REST APIs, GraphQL, Entity Framework
Frontend: React, Angular, AngularJS, HTML5, CSS3, Bootstrap
Databases: Oracle (PL/SQL), PostgreSQL, MySQL, Microsoft SQL Server
Cloud/DevOps: AWS, Azure, Docker, Jenkins, GitHub Actions, SonarQube
Tools/Practices: Git (version control PR workflows), Postman (API testing), Jira, Agile/Scrum, Code Reviews Release Coordination
IBM Mainframe Technologies: Z/OS, CICS, Cobol, VSAM, JCL, DB2, TWS

Professional Experience

Tata Consultancy Services **July 2022 – June 2024**
Software Engineer (Backend / Full Stack) Mumbai, India
- Supported enterprise-scale applications with frequent production releases by building and integrating backend services across UI, middleware, and database layers, delivering 10+ feature enhancements with stable cross-system integration and on-time deployments
- Modernized a legacy UI stack to improve responsiveness and browser compatibility by leading a migration to a modern web frontend and coordinating changes with backend services, resulting in improved maintainability across production environments
- Improved production stability and release quality across SIT/UAT cycles by strengthening database logic, automating CI/CD pipelines, enforcing code quality gates, and performing root-cause analysis, resulting in the resolution of 30+ production issues and more reliable releases

APSIT Skills Internship **May 2020 – June 2021**
Software Engineering Intern Mumbai, India
- Built CRM modules by developing 8+ REST APIs and integrating them with frontend screens, enabling end-to-end feature delivery
- Implemented secure authentication and role-based access control for multiple user roles, strengthening application security and access governance
- Improved application performance by 20% by refactoring legacy components, optimizing database queries, and adding 20+ unit/integration tests to reduce regressions

Projects

Health Revamp – Disease Ontology | Azure, GraphDB, SPARQL, Flutter/React **Jan 2025 – May 2025**
- Built ontology driven healthcare platform on Azure enabling symptom-based diagnosis using SPARQL queries over a graph database
- Designed and integrated structured medical knowledge using GraphDB and OntoRefine to support decision-support workflows
- Developed frontend interfaces using Flutter/React to visualize diagnosis results and ontology-driven insights
- **GitHub:** github.com/1110tanmay/Healthcare-Revamp

Scrum Simulator and Training Tool | Java, Agile Simulation **Aug 2024 – Dec 2024**
- Developed a Java-based Scrum simulation tool with configurable Agile parameters and real-time feedback to improve sprint planning and decision-making
- Implemented workflows for backlog prioritization and velocity tracking; collaborated using GitHub and Agile boards
- **GitHub:** github.com/SER515asu/ser515-nameless

Protocol Racer - HTTP/2 vs HTTP/3 (QUIC) | Java, Spring Boot, REST APIs, React, Vue **Aug 2025 – Dec 2025**
- Built a Spring Boot + React (Vite) tutorial platform to benchmark and compare HTTP/2 vs HTTP/3 under different network conditions using REST-based simulations and interactive UI.
- Visualized performance using latency/throughput metrics, multiplexing behavior, and waterfall charts, demonstrating QUIC's benefits under packet loss and mobile networks.
- **GitHub:** github.com/rachana-angara/SER421Group11HTTP3

SYNLang — Custom Language Interpreter | Python, ANTLR4, Git/GitHub **Jan 2025 – May 2025**
- Built a Spring Boot + React (Vite) tutorial platform to benchmark and compare HTTP/2 vs HTTP/3 under different network conditions using REST-based simulations and interactive UI.
- Visualized performance using latency/throughput metrics, multiplexing behavior, and waterfall charts, demonstrating QUIC's benefits under packet loss and mobile networks.
- **GitHub:** github.com/rachana-angara/SER421Group11HTTP3

Certifications

Google Cloud Certified Associate Cloud Engineer — Google Cloud Professional Cloud Architect