

Shriharsh Pattar

SOFTWARE ENGINEER

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Introduction

I'm a software developer with a passion for exploring every aspect of the software world. I can quickly learn and adapt to new technologies and am driven by challenges. I believe expertise is determined by how much one learns and accomplishes each year.

Skills

- Golang
- React
- GitHub
- Bootstrap 5
- JavaScript
- Node.js
- HTML
- CSS
- Express.js
- MySQL
- Mongo DB
- AWS Lambda
- Amazon DynamoDB

Experience

Rapidview Technologies | Software Developer 05/2024 – Present

Project 1: Real-Time WebSocket Notification System

- Led development of a real-time WebSocket notification system using Go and AWS Lambda, implementing bidirectional communication for instant message delivery and efficient user targeting through connection management.
- Managed WebSocket connection lifecycle with AWS API Gateway, handling connect/disconnect events, storing connection IDs in DynamoDB with TTL for scalability, and ensuring reliable session tracking.
- Developed HTTP API endpoints for creating notifications, integrating JSON parsing, validation, and DynamoDB operations to persist user-specific messages for real-time broadcasting.
- Utilized serverless architecture with AWS SAM for deployment for reliability and cost-efficiency.
- Created a client-side testing UI using HTML, CSS, and JavaScript, featuring a responsive design for connecting/disconnecting WebSocket sessions, input validation, and real-time log display of incoming notifications.

Tech Stack: Go, AWS Lambda, AWS API Gateway, Amazon DynamoDB, HTML, CSS and JavaScript.

Project 2: Java Application Migration to Java 17

- Conducted extensive research and development (R&D) to successfully migrate a legacy Java 8 Windows-based application to Java 17, ensuring full compatibility with existing dependencies, libraries, and Windows-specific integrations while addressing deprecated APIs and potential breaking changes.
- Leveraged new Java 17 language features, such as sealed classes, pattern matching, and enhanced switch expressions, to refactor code for improved performance, maintainability, and futureproofing against security vulnerabilities.
- Performed comprehensive testing, including unit tests, integration tests, and compatibility checks on Windows environments, to validate the migration's stability and minimize downtime during deployment.
- Updated build configurations, dependency management (e.g., via Maven or Gradle), and runtime environments to align with Java 17 standards, optimizing memory usage and garbage collection for better overall application performance.
- Documented the migration process, including challenges overcome and best practices, to facilitate knowledge transfer and support ongoing maintenance in a Windows production setting.

Project 3: Secure Document Access via Email

- Built backend APIs enabling secure document access through AWS Cognito with role-based authentication and authorization.
- Integrated dynamic generation of presigned S3 URLs into email notifications, allowing recipients to securely view and download documents.
- Developed APIs to process user email and message codes, delivering role-based access and presigned URLs in real time.
- Collaborated with the frontend team to design a seamless user flow, including a prefilled login page for enhanced user convenience.
- Leveraged AWS Cognito user pools to enforce role-specific authentication, ensuring data security and streamlined access management.

Tech Stack: Go, AWS Cognito, S3, RESTful APIs, Postman

Education

SKSVMACET, Laxmeshwar | Bachelor of Engineering | Computer Science | CGPA – 7.05

Poorna PU Collage, Dharwad | Pre-University | Science | PUC Percentage – 75.02%

Basel Mission English Medium High School – 86%