Soham Shinde

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EDUCATION

University of Texas at Dallas   Dallas, TX
Master of Science in Computer Science   *Aug 2023 - May 2025*

Indian Institute of Information Technology, Kottayam   Kottayam, Kerala
Bachelor of Technology in Computer Science and Engineering   *Aug 2019 - May 2023*

EXPERIENCE

Software Engineer   Jun 2024 - Feb 2025
Spoonified.me   *Dallas, TX*
- Led mobile development of a hardware enabled meal tracking mobile app in React Native and TypeScript, monitoring 100+ meals and 37 nutrition data points from a smart spoon.
- Engineered a Bluetooth Low Energy (BLE) framework for real-time data transfer with IoT hardware.
- Integrated an image recognition SDK enabling accurate identification of more than 1.5 million food items and developed a nutritional algorithm for meal metrics
- Utilized Redux for efficient state management, improving calculation times by 5% and enhancing performance.
- Leveraged AWS (S3, DynamoDB, Amplify) for secure storage and scalable backend; implemented GraphQL for efficient queries and Cognito for authentication.
- Integrated Firebase Crashlytics and remote logging reducing crashes by 30%.
- Synced data with Google Fit for comprehensive nutrition and fitness tracking.
- Designed intuitive UI/UX with animations and visualizations, continuously refined based on feedback.

PROJECTS

Bill-Splitting SaaS Platform Backend | *Spring Boot, JPA, PostgreSQL, Redis, JUnit*   Jan 2025 - Feb 2025
- Achieved **80%** test coverage in the service layer by writing comprehensive unit tests using **JUnit** and **Mockito**.
- Implemented **Redis** with a read-through caching strategy, **improving expense retrieval speed by 80%**.

Grocers Bay | *MERN Stack, Docker, JWT, Supabase, Kubernetes, Stripe, Grafana K6*   Dec 2023 - Jan 2024
- **Orchestrated an auto-scalable backend on Google Kubernetes Engine**, increasing max concurrent users by 123% ($85 \rightarrow 190$) and handling 4,500+ users per hour through Kubernetes scaling, load balancing, and optimized CPU/memory limits
- **Eliminated a 23.3% failure rate and reduced p90** response times by 41% ($13.51s \rightarrow 7.91s$), allowing the system to support higher concurrent traffic while ensuring stable response times under peak load
- Enhanced backend efficiency, **doubling concurrent request handling capacity while reducing API bottlenecks**, improving throughput from 17 req/s to 38 req/s based on K6 performance tests

Ownership Management for Secure Deduplication in Cloud | *Django, Python, Tkinter, AWS* Jan 2023 - Aug 2023
- Engineered a secure file deduplication system, integrating AES, SHA, and CP-ABE (Cipher Policy Attribute-Based Encryption) and various data structures, resulting in a 70% reduction in deduplication time.
- Deployed the optimized system on AWS EC2, contributing to a publication in Springer on advancements in secure cloud storage.

Online Video Conferencing Application | *Express.JS, WebRTC, OAuth 2.0*   Jan 2022 - Apr 2022
- Led a team of 2 to develop a low-cost peer-to-peer video conferencing web application using WebRTC, Node.js, and Express.JS. Incorporated Google OAuth 2.0, real-time chat, and screen sharing, following SDLC Agile methodology and MVC patterns, reducing operational costs by 90%.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, C++, Go, SQL, PHP
Frontend: ReactJS, React Native, HTML, CSS, SASS, EJS, JQuery, Redux, Zustand, AJAX
Backend: Node.js, Express.js, GraphQL, Socket.IO, Mongoose, Django, Kafka, JSP, RabbitMQ, Hibernate, JDBC
Databases: PostgreSQL, MySQL, MongoDB, Redis, NoSQL, DynamoDB
Design Patterns: Serverless, Microservices, JWT
DevOps and Cloud: Git, GitHub, GitLab, AWS, GCP(Google Cloud Platform), Firebase, Supabase, Heroku, CI/CD (GitHub Actions), Docker, Kubernetes, Maven