SWOPNIL ACHARYA

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Summary

Results-driven Software Engineer with 4 years of experience in architecting, developing, and deploying scalable web and mobile applications. Proven ability in full-stack development, real-time messaging systems, and cloud-native solutions. Adept at leveraging new technologies to deliver high-performance applications, supporting applications at scale.

Key Skills

- Programming Languages: JavaScript, TypeScript, C# and Node.js
- Frontend Technologies: React, React Native, Rxjs, XState, Next.js, HTML5, CSS3
- Backend Technologies: Node.js, Express.js, .NET (ASP.NET, .net 8), Java Micronaut
- Databases & Data Persistence: PostgreSQL, MSSQL, DynamoDB, WatermelonDB
- Cloud & DevOps: AWS (EC2, S3, Lambda, SQS, SNS), Docker, Terraform, CI/CD
- APIs & Architectural Concepts: RESTful APIs, Microservices, Event-Driven Architecture, Message Queues, Asynchronous Communication, WebSocket
- State Management: XState,Tanstack
- Tools & Methodologies: Git, Jira, Agile (Scrum, Kanban), TDD

Professional Experience

Software Engineer
8Seats, Sydney (Part-Time Permanent)
Feb 2025 - Present

- Engineered core features for a real-time messaging application using React Native, deployed within a scalable AWS cloud-native architecture designed to support concurrent users at scale.
- Boosted application responsiveness and enhanced data synchronisation for offline-first capabilities by implementing Rxjs for reactive data streams, Watermelondb for robust local storage, and XState for predictable state management.
- Thrived in a dynamic early-stage startup, rapidly mastering tech stack and contributing to the on-time delivery of critical messaging features through proactive learning and agile, collaborative problem-solving.

Software Engineer
Ozdocs Group of Companies, Sydney (Part-Time Permanent)
Feb 2024 – Feb 2025

- Spearheaded the migration of a legacy ASP.NET Web Forms application to React, achieving a reduction in average page load times and a decrease in user-reported UI bugs, significantly enhancing application performance.
- Designed and implemented robust RESTful APIS using .net 8, architected to support concurrent users and process upwards of 10,000 data transactions daily.

- Engineered resilient background services with a decoupled message queue architecture, improving asynchronous task processing throughput and enhancing overall system responsiveness during peak loads.
- Implemented comprehensive fault tolerance mechanisms contributing to a measured system availability of 99.9% and reducing critical incident recovery time.

Software Engineer
Leapfrog Technology, Kathmandu (Full-Time)
December 2020 – July 2023

- Spearheaded the frontend development of a complex pharmaceutical drug discovery platform, facilitating the end-to-end drug discovery and development process for biotech companies.
- Used Java (Micronaut) and Oracle/Postgresql, building efficient RESTful APIS and optimising database schema and caching strategies to reduce API response time.
- Built and integrated dynamic React components to support intricate user flows, including configuring experiments, tracking compound synthesis, and managing biological data—all in a modular, component-based architecture.
- Took part in the foundational team responsible for building a new application from scratch, contributing to both system architecture and product feature planning.
- Proactively addressed cross-functional challenges in UI/UX, performance, and integration with legacy lab systems and robotic APIS.
- Participated in agile ceremonies (daily stand-ups, sprint planning, and reviews), peer code reviews, and collaborated with cross-border teams.

Education

Master of Information Technology (Expected June 2025)
King's Own Institute (KOI), Sydney, NSW, Australia

- International student balancing part-time software engineering roles while completing coursework.
- Transferred from UTS after the first semester.

Bachelor of Engineering in Electronics and Communication
NMIT, Bangalore
June 2016 – May 2020