Aarif Hannan

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Summary

Experienced full-stack developer with 2+ years of expertise in **AWS**, **Docker**, **React**, Node.js, **Golang**, and **TypeScript**, delivering high-performance systems like a **real estate platform** (70% latency reduction via **Next.js**/**React Query**) and a **LeetCode-inspired code execution platform** using **microservices architectures**.

Education

Institute of Engineering and Management   **Sep. 2019 – July 2022**
Bachelor of Technology   *Kolkata, WB*

Technical Skills

Languages: C++, Javascript, Typescript, HTML/CSS, SQL, Golang
Developer Tools: VS Code, Docker, AWS, Google Cloud Platform
Technologies/Frameworks: ReactJs, Linux, Jenkins, GitHub, JUnit, WordPress

Experience

Freelance Software Engineer   **August 2024 – Present**
Hyderabad, India

- Developed robust RESTful APIs with **Node.js** and **Express**, ensuring seamless frontend-backend integration and high system performance.
- Optimized client-side performance using **Next.js** and consolidated API calls, reducing latency by **50%**.
- Engineered parallel processing with JavaScript **Promises**, improving user retention by **40%**.
- Decreased frontend response time by **70%** (from 1.3s to 400ms) using **TanStack Query**, **React Query**, and **Jotai**.
- Built modular, maintainable frontends with **Next.js**, **React**, and **Axios**, reducing bugs by **17%** and improving maintainability by **12%**.
- **Key Technologies:** Next.js, Nest.js, React.js, Node.js, JavaScript, TypeScript, Context API, Stripe, Mixpanel, Redux, Material UI, Lucid UI, Jotai, TanStack Query

NCR Corporation   **March 2023 – July 2024**
Software Engineer – Payroll by Fusion Software Solutions   *Hyderabad, India*

- Designed and implemented **Self-Checkout POS** features, increasing user engagement by **30%** and aligning with business objectives. Optimized **POS transaction workflows** for a **faster, smoother, and more efficient checkout experience**.
- Managed and prioritized **50+ Jira issues** for Woolworths, ensuring **100% on-time resolution**. Coordinated with development teams and stakeholders to meet deadlines and improve **POS system performance**.
- Integrated feedback to enhance **POS system efficiency** by **25%**, making transactions faster and more reliable. Improved **payment processing**, **POS UI responsiveness**, and overall **system stability**.
- **Key Skills & Tools:** Proficient in **C++**, **XML**, **Jira**, **Agile Methodology**, **Golang**, **Node.js**, **MongoDB**, **ReactJs**, **PostgreSQL** and **TypeScript**.

Projects

Code Execution Platform (Inspired by LeetCode)   **August 2024**

- ∗ Designed a **scalable microservices architecture** with **AWS Auto Scaling Groups** and **Load Balancers** for **high availability**, ensuring seamless user experiences.
- ∗ Built a **dynamic Problem Admin Service** using **JavaScript**, **Express**, and **MongoDB**, enabling **CRUD operations** and **advanced test case management**.
- ∗ Developed a **multi-language code execution service** supporting **Java**, **Python**, and **C++** using **TypeScript**, **Express**, and **Docker**, with **Strategy** and **Factory patterns** for efficient **time-limit execution**.
- ∗ Optimized **asynchronous communication** using **Fastify**, **Redis**, and **WebSocket** for **real-time feedback** and **low-latency processing** of high-volume requests.
- ∗ Deployed on **AWS EC2** with **security** and **monitoring** for a **highly reliable system**.
- ∗ **Technologies: JavaScript**, TypeScript, Node.js, Express, Fastify, **Docker**, MongoDB, Redis, WebSocket, AWS.
- ∗ **GitHub:** AlgocodeBackend