Ashley

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Education

Indiana University Bloomington (3.85 GPA) — Bloomington, USA
Masters in Intelligent Systems Engineering — *May 2024*

BMS Institute of Technology & Management — Bengaluru, India
Bachelor of Engineering in Electrical & Electronics — *June 2019*

Technical Skills

Languages: Go, TypeScript, JavaScript, Python, SASS, HTML5, LESS/CSS3, NoSQL, NodeJS, CQL, GraphQL
Frameworks: NextJS, Ant-D, React-Native, Cypress, Bootstrap, ExpressJS, WebPack, Docker, Hadoop, Spark
Developer Tools: GitHub, Figma, Chome/Edge/Moz Dev, gulp, ESLint, Android Studio, PostMan, AWS, Cloudfront, DevOps, Cloudwatch, Load Balancer. EC2, Terraform
Libraries: Redux-Thunk, React, Redux, Fluent-UI, Font Awesome, JSON, Lodash, date-fns, C#, Unity, Flask
Databases: Redis, MongoDB, Cassandra, Sqlite3, Firebase, Firestore

Experience

Wipro Technologies — Pune, India
Senior Software Developer — *November 2021 – June 2022*

- Implemented **React, Node.js, Express.js, and MongoDB** to build high-performing **full-stack web applications**, driving a significant 40% enhancement in UI performance.
- Led a seamless transition from **JavaScript to TypeScript**, bolstering code quality and security; integrated **JWT authentication** for enhanced user data protection, leading to an impressive 80% decrease in **API** response time
- Optimized code reliability and coverage through the implementation of **test-driven development (TDD)** methodology using **Cypress and Jest** frameworks. Increased automated test cases by 10-15%
- Orchestrated the **automation** of 75% of workflows through **Python scripting**

Software Developer — *June 2019 – October 2021*

- Spearheaded the development and execution of **test web application**, **leveraging Node.js**, to enable comprehensive evaluations of **web components, APIs, performance, and core web vitals.**
- Revamped website user interface using JavaScript, **ReactJS with hooks**, and JSON; **integrated Redux and Thunk** for efficient state management, resulting in a 20% decrease in **deployment** time
- Implemented multithreading and multiprocessing on the server side to enhance performance. Introduced asynchronous functions for handling multiple streams, optimizing concurrency in the system.
- Streamlined collaboration across **cross-functional teams** by implementing **JIRA, Confluence, GitLab, and Bitbucket**;

Projects

FullStack App Development | *NextJS, Go, Cassandra, MongoDB, NodeJS, Redis* — June 2023 - September 2023

- Made Cassandra and Go Server, using docker for the node management of the cluster of Cassandra.
- Made highly performant and scalable web applications using Next.js, implementing **server-side rendering (SSR) and client-side rendering (CSR)** techniques, resulting in a 60% **reduction in loading time**
- Mastered the **backend infrastructure** utilizing **NodeJS** and TypeScript with ExpressJS framework; implemented GridFS, bucket, and bson for **file storage and document management**, drastically reducing disk space usage by 50% and fortifying data security.

Native Android App | *Python, React-Native, JavaScript, TypeScript, Redux* — April 2023 – May 2023

- Architected and developed an **Android app** with advanced vehicle and crash detection features; leveraged Docker for **efficient deployment** and **load balancing** and reducing crash detection time by 20%.
- Applied **React Native framework** to enable **cross-platform support**.

Learning Management Systems | *ReactJS, TypeScript, Firebase, Redux* — January 2023 – March 2023

- Developed and delivered a robust **React app** for a university's **learning management system, streamlining course management** for 50+ faculty members and empowering 150+ students to submit assignments on time, resulting in improved academic performance and student satisfaction
- Optimized the data and file management system by integrating **Redux-thunk, Redux, and Firebase**, resulting in a 40% improvement in **pages loading time**.