Athul Muralidharan

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Senior Software Engineer with 7+ years of experience specializing in full-stack development, with strong expertise in React/TypeScript front-end development and Java/Springback-ennd systems, currently leading technical initiatives at Oracle with a focus on performance optimization and accessibility.

Work Experience

Oracle   **Senior Software Engineer (SDE 3)**   *Jan '20 - Present*

- **Led a team of six engineers**, designing forms in a config driven UI within a micro-front-end architecture.
- **Saved 2000 Dev hours a year ($300k)** with build-time asset hashing to prevent CDN caching issues.
- Awarded with **Spot Award by the director** for good engineering practice and delivering forms engine.
- Developed & migrated Grafana plugins, accelerated delivery by 3 months and built dashboard visualizations for Oracle Cloud Infrastructure console plugins using GoLang & React, WebGL & Canvas
- Set up **10+ canary alarms** to prevent customer report and maintained **99.99% availability** of services
- Optimized build time from 45 to 10 mins with asynchronous processing based parallelization & webpack
- Reduced rendering time from 200ms to 100ms by reorganizing redux state updates and API calls
- Owned a11y accessibility compliant WCAG driven feature development in React in Typescript with ES6+
- Developed an AI powered Jira Assistant using LangChain & Pinecone for vector search, automating issue summarization and suggesting next steps via a Streamlit interface.
- Reviewed code, organized bug bashes, and collaborated closely with UX engineers & back-end devs for **Java** API specs
- Increased code correctness by implementing React snapshots, Jest, WebDriver, and Playwright tests.
- Architected and developed deployment infrastructure for console applications using Terraform & Docker.
- **Conducted 50+ interviews and mentored 3 engineers**, facilitated promotions from SDE 1 to SDE 2.

Bose   **Software Engineer Intern**   *May '19 - Aug '19*

- Built a full stack service in distributed environments using React, Java, Kubernetes for Bose media devices
- Developed Facade design pattern web facing APIs in python & **reduced dev cost of at least $10k** by mock servers

Retail Business Services   **Software Engineer Coop**   *Jan '19 - May '19*

- Collaborated with the frontend team and built 'Coupons' app using Object Oriented Design in **Java Spring** hibernate persistence SQL for the **largest grocery chain in US East** in SOA model on **Azure cloud**
- Reduced latency in network requests by 200ms by coupling with Redis server and kafka for events

Rigor Solutions   **Software Engineer – Full Stack**   *Nov '16 - Aug '17*

- Created ecommerce prototypes from wireframes for the **start up** and promoted to production backed by CI/CD
- Built 100+ secure REST JSON APIs in Python Flask with ORM driven **SQL** queries, OAuth & JWT in **AWS**
- Awarded the **10x developer award** for bug free code and boosted productivity by good coding practices

Altran   **Software Engineer**   *Oct '15 - Nov '16*

- Built TCP/IP, RSVP and LAG features for network routers/switches in Java & HTML, functional on millions of Juniper network routers across the globe with a thoroughly test driven approach with JUnit tests.

Technical Skills

Languages: JavaScript, TypeScript, Python, HTML5, CSS, Java	**Frameworks:** React.js, Node.js, Express, JUnit, AJAX, Spring, Flask
Data & Storage: MySQL, PostgreSQL, MongoDB, Redis	**Tools:** Git, AWS, Jira, Packaging (Maven, npm, pip)

Education

Northeastern University   **Master of Science in Computer Science**   *Sep '17 - Dec '19*

SRM University   **Bachelor of Technology in Computer Science**   *Aug '11 - Jun '15*