Rajesh Babu Polamarasetti

Highly technical and hands-on Engineering Manager with over 14 years of experience, including 4+ years in management roles. Proven track record in leading large teams, driving product engineering roadmaps, and delivering high-quality solutions in fast-paced environments.

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Professional Experience

Staff Engineer
Qualcomm India Private Limited | Bangalore | 09/2022 – 11/2023

- Participated in enhancing Qualcomm's AI Studio Desktop application for AI model execution, verification, profiling, and application analysis on both Windows and Linux platforms. (View Demo)

- Owned and drove technical discussions, influencing strategic tech decisions and collaborating cross-functionally with different teams, managers, engineers, and QA to deliver solutions on time.

- Implemented Agile methodologies and best practices for team deliverables, including coding standards, code reviews, source control management, build processes, testing, and operations.

- Worked closely with Senior Staff to define and champion best practices for development.

- Utilized ng-terminal and xterm.js to develop and implement a crucial feature within the Qualcomm Studio Application. This enhancement facilitated seamless access to remote systems through an integrated terminal, significantly improving the application's versatility and productivity. Users were empowered to execute commands and interact with remote environments directly from within the Qualcomm AI Studio interface.

- Developed and maintained Unit & Integration tests for seamless software integration, ensuring the reliability and functionality of the product. Integrated these tests into the

Continuous Integration/Continuous Deployment (CI/CD) pipeline, guaranteeing consistent and automated testing throughout the development lifecycle.

- Utilized Docker-based development environments to streamline and standardize the software development lifecycle, resulting in enhanced consistency, efficiency, and portability across projects.

- Guided and mentored a team of engineers, fostering an environment conducive to their professional growth and development.

- Successfully managed hiring and skills development of the team.

Principal Engineering Manager
Quantela, Inc | Hyderabad | 07/2011 - 08/2022

- Played a pivotal role within the Quantela Atlantis Platform, taking ownership of key products including Citizen, Field Officer, and Disaster Management. These products were instrumental in facilitating citizen engagement, field operations management, and disaster response initiatives. ([Watch Video](#))

- Led a team of 20+ engineers, overseeing product engineering roadmap with a focus on performance, scale, and overall quality for products utilized within smart city initiatives, leveraging the ICCC (Integrated Common Control Center) to ensure seamless integration and effectiveness.

- Led and facilitated technical discussions, influencing strategic technology decisions while fostering cross-functional collaboration with Business teams, Product managers, engineers, and QA to successfully deliver solutions within designated timelines.

- Introduced and implemented low-code/no-code solutions for both mobile and web applications, streamlining the process of rendering forms. This innovative approach significantly reduced development time and complexity while empowering non-technical stakeholders to contribute to the application's functionality.

- Incorporated these features into applications utilized by numerous Indian states during the COVID-19 crisis, enabling the seamless generation and presentation of reports on the Integrated Command and Control Center (ICCC) platform for the Ministry of Health (MOH).

- Contributed to diverse projects for renowned brands such as Whirlpool (Oven and Refrigerator), Synchronoss Workspace, Jockey Club, Perform Rx, and numerous other

applications. Successfully deliver solutions tailored to each client's specific requirements and industry standards.

- As an Engineering Manager, demonstrated proficiency in managing projects with microservice architecture, leveraging WS02 (API Manager, Identity Server) and AWS cloud services (API Gateway and Cognito). Successfully led teams in designing, implementing, and maintaining scalable and resilient microservices-based solutions, optimizing performance and reliability in cloud environments.

- Implemented Agile methodologies including sprint planning, retrospectives, and other iterative processes throughout the duration of Quantela projects. This structured approach facilitated effective project management, fostering continuous improvement and ensuring alignment with client objectives and timelines.

- Utilized Veracode and other security tools within the pipeline to manage and mitigate security risks across projects. Implemented measures to integrate security protocols seamlessly into solution delivery processes, ensuring the protection of sensitive data and adherence to industry best practices.

- Proficient in state management using Redux, a predictable state container for JavaScript applications. Experienced in implementing Redux architecture to efficiently manage and maintain application state, enabling seamless data flow and state updates across complex web applications.

- Ensured transparent communication channels within the team to foster collaboration and alignment towards common goals.

- Established clear objectives and ensured that team members understood their roles and responsibilities in achieving them.

- Encouraged autonomy and empowerment among team members by delegating tasks and responsibilities based on their skills and strengths.

- Provided ongoing feedback and coaching to team members to support their professional growth and development.

- Recognized and rewarded team members for their achievements and contributions, fostering a positive and motivating work environment.

- Addressed conflicts and issues within the team promptly and constructively, promoting a culture of open communication and collaboration.

- Encouraged a culture of continuous improvement by soliciting feedback, identifying areas for enhancement, and implementing changes to enhance team performance and efficiency.

- Instituted rigorous code review processes to ensure adherence to coding standards and identify potential security vulnerabilities.

- Implemented automated static code analysis tools to proactively detect and address code quality issues and security vulnerabilities.

- Provided regular training sessions to educate engineers on secure coding practices and emerging security threats.

- Implemented processes for managing third-party dependencies to mitigate security risks associated with outdated or vulnerable libraries.

- Implemented Istanbul (with Jest) for code coverage analysis and integrated SonarQube and ESLint for comprehensive static code analysis and quality assurance in our development workflow.

Associate Software Engineer
Notion Ink Design Labs | Bangalore | 07/2009 - 07/2011

- Developed Android applications tailored to the specifications and capabilities of the Notion Ink Adam tablet.

- Implemented OTA update mechanisms to deliver software updates seamlessly to Adam tablet users. Worked with the Android operating system framework to integrate new features or optimizations into the device's firmware

Skills & Qualifications

- Over 14 years of hands-on experience in managing, designing, and developing frontend, backend, and mobile applications.
- Extensive expertise in microservices architecture and database design, facilitating the creation of scalable and efficient solutions.
- Proficient in designing robust, maintainable, and high-performance architecture for web and mobile products, ensuring optimal functionality and user experience.

- Strong problem-solving skills and analytical mindset, with a proven ability to identify and address complex technical challenges effectively.
- Proficient in utilizing a wide range of technologies and frameworks, including but not limited to: JavaScript, React, Node.js, Java, React Native, and Angular.
- Demonstrated ability to provide technical leadership and guidance to development teams, ensuring adherence to best practices and industry standards.
- Proven track record of leading, mentoring, and coaching teams of developers, fostering a collaborative and innovative work environment conducive to achieving project goals and objectives.

Tech Stack
- Front-end: Proficient in **HTML, CSS, and JavaScript**, with extensive experience in frameworks such as **React, React Native, Angular, and Android development**, **GraphQL, Java.**
- State management**: Redux, Context API, React useReducer**.
- Back-end: Skilled in Node.js, specializing in Microservices Architecture and Development for building scalable and resilient backend systems.
- Database: Proficient in both SQL and NoSQL databases, including MongoDB, ensuring efficient data storage and retrieval.
- Testing: Jest, Jasmine
- Version Control: Experienced in using Git for version control, enabling collaborative development and code management.
- Docker: Advanced proficiency in Docker for containerization, facilitating efficient deployment and management of applications in various environments.
- AWS: Intermediate-level proficiency in Amazon Web Services (AWS), including EC2, API Gateway, S3, Lambda, AppSync, Route53, ECS, Cognito, and CloudFront, enabling the deployment and management of scalable and reliable cloud-based solutions.

Education
- **Master of Computer Applications (MCA)**
  - o Dr. B. V. Raju Institute of Computer Education, Andhra University, Bhimavaram.
  - o Graduated: 2006 – 2009

Professional Development
- Actively participated in the Smart City Expo in Jaipur organized by Quantela, showcasing expertise and contributing insights into smart city technologies and solutions ([Watch Video](#))

Achievements

- Received Excellent Ownership Award from Quantela in 2019 for successfully managing the Citizen and Field Officer products, demonstrating exceptional ownership from requirement gathering to product delivery.