

# Varun Reddy Mogili

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## TECHNICAL SKILLS

**Languages:** Java, TypeScript, Python, JavaScript

**Frameworks & Libraries:** React, Dagger, Node.js, Tailwind CSS

**Databases & Storage:** PostgreSQL, DynamoDB

**DevOps & Cloud:** AWS (CDK, S3, CodePipeline, CloudWatch, API Gateway, Lambda, ECS), Docker, Git, Agile

## PROFESSIONAL EXPERIENCE

### Software Developer Engineer

Sep 2025 – Present

Amazon — Seattle, WA

- Built and maintained testing and validation tools in Java and TypeScript for vendor-commissioned automated storage and retrieval systems in grocery fulfillment centers, executing simulated orders, induction workflows, and inventory audits to certify system readiness before launch.
- Developed an AI-powered analytics assistant using React and TypeScript that surfaces machine metrics from automated fulfillment infrastructure, enabling engineering teams to quickly diagnose issues and assess site health.
- Designed responsive frontend interfaces with React and Tailwind CSS for internal tooling, enabling teams to test and analyze fulfillment center performance across multiple sites.
- Managed CI/CD pipelines from alpha to production using AWS CDK with TypeScript, automating build, test, and deployment workflows through infrastructure-as-code.
- Stack: Java, TypeScript, React, Tailwind CSS, Python,

### Associate Software Engineer

Jan 2021 — Jul 2023

Wipro — Hyderabad, India

- Migrated a legacy AngularJS dashboard to a modern React.js SPA, improving load times and mobile responsiveness across key user workflows.
- Built modular React components with TypeScript and Tailwind CSS, enabling faster feature development through reusable, scalable code architecture.
- Developed and documented RESTful APIs using Node.js and Express.js with input validation, rate limiting, and structured error handling.
- Integrated CI/CD pipelines with GitHub Actions and Jenkins, automating tests and deployments across 2-week Agile release cycles.
- Stack: React, Angular, JavaScript, Redux, Node.js, Express.js, MongoDB, Jest

## PROJECTS

### FitLog | React, Typescript, Node.js, Express.js, Tailwind CSS

- Built and developed a full-stack exercise logging platform using the MERN stack and Tailwind CSS, enabling users to track workouts and progress while delivering a seamless user experience.
- Implemented secure user authentication with JWT, ensuring data privacy and compliance with accessibility and security standards.
- Designed a responsive, user-friendly interface with React and Tailwind CSS boosting user engagement
- Built RESTful APIs with Express.js and documented endpoints using Swagger for API standardization.
- Optimized MongoDB schemas using Mongoose, improving query performance and enhancing data storage reliability.

### Task Management System | React.js, Node.js, MongoDB, Redux, Vite

- Built a task management system with priority-based sorting using React, Node.js, and MongoDB, with Redux for state management.
- Introduced a priority-based task sorting feature, reducing task management time and increasing user efficiency.
- Enhanced data flow and UI responsiveness, improved data handling efficiency and reducing task completion time.

## EDUCATION

### University of North Carolina, Charlotte

Aug 2023 – Dec 2024

MS in Computer Science | GPA: 4.0/4.0

Charlotte, NC

### Koneru Lakshmaiah University

Jun 2019 – May 2023

Bachelor's in Computer Science | GPA: 3.56/4.0

Hyderabad, India