

VINAY VARMA

SOFTWARE ENGINEER

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EDUCATION

Master of Science, Computer Science

George Mason University, Fairfax, VA

August 2022 – May 2024

Bachelor of Technology, Computer Science & Engineering

CMR College of Engineering and Technology, Hyderabad, India

August 2016 – September 2020

TECHNICAL SKILLS

Programming Languages: Java, Python

Web Technologies: XML, Ajax, HTML, JavaScript, JQuery, JSON, React JS, Angular JS, Node JS, Bootstrap CSS, HTML5

Development: Node JS, Bootstrap, Express, SQL, GraphQL, Redux, Django, MongoDB, PostgreSQL, API

Tools & DevOps: Postman, Jenkins, Jira, EC2, Git, AWS, Mocha, Kafka, Scrum, Eclipse, IntelliJ

Databases: Oracle SQL, MySQL, PostgreSQL, MongoDB, SQLite,

Certificates: Meta Front-End Developer | Coursera, Certified Front-End UI Developer | Coursera, Certified in React.js

PROFESSIONAL EXPERIENCE

George Mason University

Fairfax, VA

Graduate Teaching Assistant

September 2023 – Present

- Evaluated fair and consistent grading of 100+ assignments and examinations, adhering to established rubrics
- Conducted over 10 review sessions and study groups per semester, with an average attendance of 20 students per session

IBI Group

Telangana, INDIA

Software Development Engineer 1 (SDE – 1)

August 2021 – July 2022

- Led creation of CI/CD pipelines, code review processes, and test automation for product releases, accelerating deployment velocity by 60% and improving quality
- Orchestrated the successful leadership of a software development team, resulting in the timely and within-budget completion of a \$1.2 million project with adherence to SDLC principles
- Pioneered **Redux** for state management and **TypeScript** for type safety in large-scale **React** applications, enhancing developer productivity with ES6, NPM, webpack and testing frameworks as **Chai** and **Mocha**

Associate Software Developer

November 2019 – August 2021

- Built **JavaScript** and **Python** solutions that boosted employee efficiency by 30%, showcasing strong productivity
- Led integration of Python and C++ scripts for automating unit tests, resulting in an impressive 50% reduction in testing time
- Optimized code efficiency by 20% through effective debugging and troubleshooting, ensuring robust and reliable software

Software Developer Intern

August 2019 – November 2019

- Developed scalable cloud-based web applications using **Java**, **Spring Boot** and **.NET MVC** supporting 50,000 users
- Implemented centralized authentication using Spring, **JWT**, decreasing redundant identity management flows by 70%
- Containerized and deployed 80 Java Spring Boot microservices to **AWS ECS**, leveraging **Docker** and **Kubernetes** for high availability. Optimized services for horizontal scalability

PROJECTS

Digital Ledger and Payroll Management System

- Directed the development of a highway assets management system, utilizing React functional components with hooks and Redux, contributing to a 10% boost in system reliability and a 20% decrease in bug resolution time
- Executed app with **React hooks**, Redux, react-router, boosting app performance by 40%
- Followed front-end best practices with **Redux-Sagas**, cutting state management time by 55%

CurbiQ (Digitization of Curbside Regulations)

- Integrated **Node.js** micro services for seamless communication with internal and external 3rd party services via REST APIs
- Developed innovative **full-stack web applications** using ReactJS, Django, and writing 100+ API
- Architected Postgres databases supporting complex analytical queries for real-time analytics over 10 billion data points

NECE Toll System

- Implemented highly accurate vehicle processing at over 90% precision utilizing **C#** and **.NET MVC** architecture principles, guaranteeing smooth and secure toll operations
- Managed the processing of approximately 1 million transactions daily, around 1 TB data using **SQL databases**