Vivek Thakur

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Education

California State University East Bay   Aug 2018 - Dec 2020
Bachelor of Science in Computer Science   *Hayward, CA*

Experience

Intact Insurance   Dec 2022 – Present
Software Engineer   *San Jose, CA*
- Implemented Apache Tomcat into our lower environments, improving build times by 62%
- Led a cross-functional team in implementing a new product line using Data Driven Design, SQL and Java, resulting in diversified revenue streams used by 30% of our users.
- Optimized MySQL database queries, resulting in enhanced detailed audit reports, a 20% improvement in query performance, and a remarkable 12x increase in pulled data capacity.
- Introduced automated testing processes with Zephyr, increasing test coverage by 30%, and reducing post-release triage by 40%
- Contributed to the adoption of agile methodologies, utilizing Jira and Confluence, improving team productivity by nearly 30% through iterative development cycles.

Shelter Insurance   May 2021 – Nov 2022
Software Engineer   *Austin, TX*
- Engineered a microservice scheduling application from ground up with necessary pipelines using continuous integration and deployment (CI/CD) via Jenkins.
- Improved build stability by identifying and fixing a critical application bug that caused build failures at random by elevating memory thresholds
- Created new scalable APIs with data retrieval via Spring JPA for managing JSON communication between services using Spring Security and JSON Web tokens (JWT)

MDout   May 2020 – Dec 2020
Software Engineer Intern   *San Jose, CA*
- Formulated a responsive disease modeling system via Angular with API calls to Twitter API.
- Connected our Python back-end systems to our front-end via Internal API's to enable data processing and data visualization which was done using ChartJS and Apache Charts.

Projects

USGS Serveillance App 1 | *Java, Spring, Angular, SQL, HTML, CSS*
- Created a Full-Stack application with scalable RESTful API to fetch and process large datasets with data visualization done with dashboards.
- Built a CI/CD pipeline using Jenkins and Docker, ensuring consistent and reliable releases.

Genetic Mutation prediction | *Java*
- Developed a genetic mutation program that creates offspring based on mutation operations by using a partially mapped creossover function with genetic operators in conjunction with the Traveling Salesman Problem.

Technical Skills

Languages: Java, JavaScript,TypeScript, Python, Rust, C++, Groovy
Technologies: Spring Boot, Angular, React.js, Flask, TensorFlow, PyTorch, jQuery, Bootstrap, Node.js