

Vivek Thakur

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Skills

- Java | Spring Boot | Spring JPA & Security | C# | .NET | TypeScript | Angular | C++ | SQL | Linux (Arch) | Git | Vim
- AWS | CI/CD | Jenkins | JUnit 5 Unit Testing | WebSphere | Postman | PCF | GrayLog
- Monolithic | Microservices | Distributed Systems | Backend | Full-Stack

Experience

Software Engineer

Intact Insurance

12/2022 -Present

- Analyzed and refactored legacy **Java** code, resulting in a decrease of 15% of bug and triage tickets while also implementing code reviews to future proof our application.
- Led the development of our SAAS application
- Created scripts to run ad hoc jobs in combination with production support using **SQL**. and **.NET**
- Spearheaded the integration of **Apache Tomcat** into our lower environments resulting in build times being reduced from 8 to 3 minutes.

Software Engineer

Shelter Insurance

05/2021 - 11/2022

- Designed, developed and deployed a **microservice** scheduling app requested by the product owner and built necessary pipelines using continuous integration and deployment (**CI/CD**) via **Jenkins**.
- Identified and fixed a critical application bug that caused random build failures, resulting in a 40% increase in sprint velocity by conducting in-depth research and adjusting memory thresholds.
- Implemented new scalable **APIs** for managing **JSON** communication between services using **Spring Security** and **JSON Web tokens (JWT)**; The APIs were designed to optimize data retrieval through **Spring JPA**
- Fortified our pipelines by configuring and deploying security plugins, which identified existing and new vulnerabilities being introduced.

Software Engineer, Intern

MDout

05/2020 - 10/2020

- Designed a disease modeling system to track high risk diseases via **Twitter API**
- Connected our **Python** backend systems to enable efficient data processing and data visualization by leveraging **ChartJS** and **Apache Charts** with **Angular** to develop visually appealing graphs and charts.
- Used knowledge on Data Structures and Algorithms to sort and optimize large datasets for different locations

Education

Bachelor of Science

CSU East Bay

Hayward, CA. 08/2018 - 12/2020

- Major in Computer Science

Projects

- **USGS Surveillance App**: Created a Full-Stack application that uses Angular and Spring to fetch large datasets taken from the United States Geological Surveillance API and displays it in a user friendly format. ([link](#))
- **Genetic Algorithm using TSP**: Developed a Java program that creates offspring based on mutation operations by using a partially mapped crossover function and genetic operators. The program uses the premise of the Traveling Salesman Problem to come up with the most efficient solution. ([link](#))

Mentorship

- **Computer Science Tutor**: Programming | Data Structure and Algorithms | Mathematics