

# Vivek Thakur

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*Dynamic and results-oriented Full-Stack Software Engineer with 3 years of experience in the Insurance industry. Proficient in Java, SQL, and the Spring framework, with a proven track record of delivering high-quality solutions to complex problems.*

## Experience

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### **Intact Insurance, Software Engineer II | Remote**

Dec 2022 - Feb 2024

- Containerized restful services using docker and image creation which led to less resource consumption for legacy applications
- Transferred our build from Websphere to Apache Tomcat, resulting in > 110% improvement in build times within lower environments.
- Revamped underwriting Java application while enhancing functionality leading to 80% higher user satisfaction.
- Created dynamic GUI generation component combined with data binding to visualize algorithms utilized in underwriting calculations.
- Took ownership and integrated new product line diversifying revenue streams while broadening the range of available products.
- Introduced automated testing processes with Zephyr, resulting in 80% reduction in post-release triage.
- Assumed the leadership role for the transition from waterfall to agile methodology for our team. Following positive metrics, was then implemented company wide.

### **Shelter Insurance, Software Engineer I | Remote**

May 2021 - Nov 2022

- Designed and implemented a Spring Boot microservice scheduling application from ground up with necessary pipelines using continuous integration and deployment (CI/CD) via Jenkins.
- Implemented new scalable APIs with data retrieval via Spring JPA for managing JSON communication between services via Spring Security and JSON Web tokens (JWT)
- Secured existing internal applications and endpoints by adding authorization through OAuth2.0
- Improved build stability by identifying and fixing a critical application bug that caused build failures at random by optimizing resource utilization
- Imported data visualization and monitoring technologies along with various dependencies and sub-dependencies to several projects for better telescopic monitoring

### **MDout : Software Engineer (Front-End), Intern | Livermore, CA**

June 2019 - Aug 2019

- Formulated a responsive disease modeling system via Angular with API calls to Twitter API that is being used by Sutter Health.
- 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.
- Modified existing Rest API calls to be asynchronous and used Interceptors to preprocess requests before authenticating and logging
- Responsible for designing user-facing website via Figma, showcased a range of designs from which the CEO personally selected the final version
- Built required pipeline to deploy Angular application using Github Actions, created required tokens, configured permissions and environment variables to allow team wide access

## Projects

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### **Java | Spring Boot | Angular | TypeScript**

Earthquake Surveillance Application, Personal Project

- Developed a Restful service that fetches and display earthquake information to the user.
- Deployed Back-End using AWS EC2 instance with Dockerization/Containerization with CI/CD done via Github Actions.
- Utilized ng2-charts and D3 for data visualization, created custom endpoints for user specific scenarios

### **Partially Mapped Crossover Genetic Algorithm | Java**

Genetic Mutation Prediction Model

- Created a multi-agent partially mapped crossover(PMX) genetic algorithm that used a randomly selected crossover point to exchange portions of data between parents, to introduce genetic variety before migrating features from both parents to offspring.
- Utilized Traveling Salesman Algorithm to benchmark and test matrix information criteria and resultant offspring.

## Skills

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**Languages** Java, Spring Boot, Angular, TypeScript, SQL, JavaScript, React, Python, Flask, C++, Rust, HTML/CSS/Bootstrap  
**Software** Linux, Jenkins, AWS, Docker, RabbitMQ, Snyk, Jira, Tensorflow, Pytorch, Docker, OpenCV

## Education

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**BS in Computer Science**, California State University East Bay | Hayward, CA