

Vivek Thakur

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Skills

- Java | Spring Boot | Spring JPA & Security | TypeScript | Angular | C++ | MSSQL | MariaDB | Arch Linux | Git | Vim
- AWS | CI/CD | Jenkins | Snyk | JUnit 5 | WebSphere | Postman | Unit Testing | PCF | GrayLog | Data Driven Design
- Monolithic | Microservices | Distributed Systems | Backend | Full-Stack

Experience

Software Engineer

Intact Insurance

Minnetonka, MN. 2/2022 - Present

- Modernized team norms by integrating mandatory pull requests, code reviews, smoke testing, unit/integration/end2end testing using **Github, Websphere, MSSQL, and .NET**.
- Led the development of our web applications using internal tools in combination with **HTML** and **Javascript**.
- Created scripts to run ad hoc jobs in combination with production support using **SQL** and **.NET**
- Migrated **legacy** software integration from **Websphere 8** to **9**.
- Used user data, performance metrics, and quantitative information to make informed decisions.

Software Engineer

Shelter Insurance

Columbia, MO. 5/2021 - 11/2022

- Designed and developed a **microservice** application in **Java**, utilizing **Spring** and **SQL**, to facilitate the dissemination of updated privacy notices on behalf of my organization. The application was deployed using continuous integration and deployment (**CI/CD**) via **Jenkins**, enabling ad hoc job execution as necessary.
- Using system metrics and tooling such as **Graylog** and **PCF**; I discovered a bug in our application that would fail at build time during deployment was caused due to the memory exceeding a specific threshold.
- 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 deploying security plugins, notably **Snyk**, which effectively identifies existing and new vulnerabilities being introduced, thereby enhancing our overall security.

Software Engineer, Intern

MDout

Livermore, CA. 5/2020 - 2/2020

- Designed a disease modeling system to track high risk diseases via **Twitter API**
- Connected our backend systems to enable efficient data processing and 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 | Career Advice | Coding Interview Prep