

Toe Arkar

Atlanta, GA, United States

Education

Bachelor of Science in Computer Science

Webster University, Saint Louis, MO | *October 2016 – August 2020*

Minor: Mathematics

Project

Insurmate.app: Blockchain-Based Insurance Policy Management

Leading a private blockchain project using Hyperledger Fabric to facilitate secure and transparent policy management and exchange in the insurance industry.

- Sponsored and mentored a capstone research team at the University of Nebraska Omaha (UNO) for two consecutive semesters.
 - Developed an MVP featuring a MERN (MongoDB, Express, React, and Node) stack integrated with blockchain.
 - Exploring Ollama LLMs for fraud detection, policy verification, and automation in insurance processing using ontology and the semantic web.
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Professional Experience

Founding Software Engineer

We Care Insurance Inc. | *October 2022 – Present*

- Designed and implemented a scalable cloud-based architecture using Oracle Cloud Infrastructure (OCI), optimizing system performance and cost efficiency.
- Migrated JavaScript and jQuery code to React, creating a modern, responsive, and interactive user interface that enhances the user experience.
- Integrated Redis caching for optimized data retrieval and RabbitMQ messaging for asynchronous operations.
- Led technical mentorship initiatives, guiding interns and fostering software development best practices.
- Contributed to strategic decision-making by collaborating with industry experts to enhance system design and performance.

Software Engineer

We Care Insurance Inc. | April 2021 – September 2022

- Developed full-stack web applications using Spring Boot, JavaScript, and jQuery to create a responsive and interactive user interface, utilizing Axios to communicate with the backend.
- Improved backend performance by migrating from JDBC to JPA Hibernate and implementing database transaction management.
- Conducted unit and integration testing using JUnit, Mockito, MockMvc, and TestContainers following a Behaviour Driven Development (BDD) approach.
- Established role-based access control (RBAC) and security policies using Spring Security.
- Automated deployment workflows with Docker and GitHub Actions, ensuring a streamlined CI/CD process.

Software Engineer Intern

We Care Insurance Inc. | September 2020 – March 2021

- Designed and optimized SQL database schemas for efficient data storage and retrieval.
- Developed API integrations for VIN validation, address verification, and document management with Amazon S3.
- Enhanced web applications by integrating JDBC, XML, and JavaMail, improving usability and performance.

Database Developer Intern

Forkaia | June 2019 – August 2019

- Collaborated with research teams to develop data models and optimize relational databases.
- Normalized database structures to Fourth Normal Form (4NF) to ensure data integrity.
- Created Entity-Relationship (ER) models, database triggers, indexes, views, and queries to streamline operations.
- Built a Python-based database management system for research and analysis applications.

Technical Skills

Programming Languages

- Java, JavaScript

Frameworks & Libraries

- **Front-End:** React, Bootstrap, Astro, jQuery
- **Back-End:** Express.js, Mongoose, Spring Boot, Spring Data JPA
- **Blockchain:** Hyperledger Fabric
- **Testing:** Mockito, JUnit, MockMVC, Jest, Testcontainers

Databases

- MongoDB, MySQL, Redis

Cloud & Infrastructure

- Oracle Cloud Infrastructure (OCI), AWS S3, Docker

Security & Access Control

- Spring Security, Role-Based Access Control (RBAC)

Software & Tools

- GitHub, Bitbucket, Jira
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