Christopher Diasanta

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Experience

Mission Technologies, a division of HII - Remote, Virginia
Software Engineer I | Sept 2021 - April 2025
Software Engineer II | April 2025 - Present

- Built and iterated R&D prototypes for a cloud-based simulation platform, integrating Kafka-based data pipelines, Java Spring services, WebSocket messaging, and Vue/Cesium visualization to validate real-time system capabilities.
- Refactored frontend and Spring backend to reduce complexity and improve performance, across 4 modules, in a codebase of over 50,000 lines of code
- Designed and implemented RESTful APIs using Spring Boot, integrating with Vue/React frontend components and external services.
- Led monolith-to-microservices migration by defining service boundaries and extracting services while maintaining feature parity
- Built and deployed new features in a Dockerized microservices architecture, improving modularity and scalability while ensuring robust performance across multiple services
- Remediated security vulnerabilities by upgrading application dependencies and resolving CVE findings, reducing security exposure while maintaining build stability and compatibility.
- Migrated persistence layer to Spring Data JPA/Hibernate, reducing query complexity and improving endpoint latency by 200% and cutting DB load by 100% through the use of batching and caching
- Supported four live customer-facing product demonstrations by troubleshooting real-time technical issues and partnering with Sales and Product Management to translate platform capabilities into clear technical value for prospective customers.
- Built distributed data pipelines and real-time streaming services for a cloud-based Monte Carlo simulation platform, scaling concurrent entity support from ~100 to ~2,000 entities — a 20× increase — while reducing processing latency and improving simulation throughput.
- Improved scalability of a Java Spring Kafka/WebSocket backend for a Vue.js/Cesium real-time mapping application by optimizing concurrent message processing, reducing CPU utilization from ~100% to ~25% and lowering infrastructure resource demand

SKILLS

Core Skills: Microservices, REST APIs, WebSockets, Distributed Systems, Data Structures & Algorithms, OOP, Full-Stack Web Development, SPA applications, SQL Databases

Languages: Java, Scala, Python, JavaScript, SQL, Bash

Frontend: Vue.js, React, HTML, CSS, Vue Router React Router, Vuetify, PrimeVue, ESLint

Backend: Spring Boot, Spring Data JPA, Apache Kafka, Protocol Buffers

Database: PostgresSQL, SQLlite, Kafka Streams API (RocksDB)

DevOps/Tools: Docker, Maven, Nginx, Git, Postman, Playwright, CI/CD, YAML pipeline

AI-Assisted Development: Local LLMs via Continue.dev, GPT Codex, GitHub Copilot, CLine

EDUCATION

Bachelors of Science in **Computer Science,** Dec 2020
Old Dominion University

Associate of Science in **Computer Science**, May 2018
Tidewater Community College