Hassan Mousavi

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SKILLS

- **Frameworks:** Spring JPA, Spring Web, Spring Actuator, Spring JPA, FastAPI, Next.js
- **Technical Skills**: Java, Python, React, Javascript, Lambda, MQTT
- **Database**: Oracle, PostgreSql, Azure Cosmos DB, Azure GraphDB, AWS DynamoDB
- **Cloud**: Amazon Web Services (AWS), Microsoft Azure
- **Methodologies**: Agile, SAFe, Test Driven Development (TDD), Feature Driven Development (FDD), Event-Driven Architecture

PROFESSIONAL EXPERIENCE

XSB (REMOTE)   **Setauket, NY**
Software Engineer   **Jan 2025- Present**
- Maintain and enhance user interface for Casting and Forgings, ensuring usability and performance improvements.
- Support and optimize backend services for SWISS platform, improving system efficiency and reliability.
- Integrating SWISS platform with Exiger's codebase, facilitating seamless interoperability.
- Develop and deploy integrations between XSB and the Exiger Kubernetes cloud environment.

BEYOND INC   (REMOTE)   **Midvale, UT**
Sr Software Engineer   **Jun 2022 - Dec 2024**
Modernized the My Account Portal and led the redesign of the customer SMS notification system. Collaborated cross-functionally to deliver scalable, user-focused features while improving system performance, observability, and maintainability.
- Enhanced the post-purchase experience, ensuring timely and reliable updates using Apache Pulsar.
- Spearheaded requirements, designed solutions, and groomed user stories for new MyAccount features, ensuring alignment with business objectives.
- Reduced customer wait times by integrating third-party AI-driven chatbots and SMS Vendors.
- Organized Jenkins CI/CD builds to deploy into Beyond's Kubernetes cloud.
- Championed code reviews and implemented automated testing to ensure adherence to internal coding standards and maintain software quality.

PERRONE ROBOTICS   **CROZET, VA**
Java Software Developer   **Jan 2022 - Jun 2022**
Developed and maintained critical backend services for Perrone Robotics' autonomous vehicle platform, contributing to reliable data processing, system integrations, and real-time communication between software and vehicle hardware components.
- Integrated additional sensors and enhanced data fusion for comprehensive and accurate data analysis.
- Conducted systematic and in-depth in-vehicle quality testing of all code before shipment to customers.
- Improved and designed new maneuvers for autonomous shuttle travel.

TRIDIUM INC   **RICHMOND, VA**
Advance Software Engineer   **Sep 2017 - Jan 2022**
Engineered data pipelines that ingest building sensor data, and expose the data through HTTP endpoints, enabling customers to gain actionable insights for optimizing commercial building operations.
- Orchestrated a chain of Azure Functions to store all building sensor data into Azure CosmosDB and Azure GraphDB within 5 minutes.
- Developed backend Java SpringBoot services for extracting building sensor data from Azure as well as parsing data from Kafka streaming services.
- Facilitated the collection and transmission of building sensor data from the edge device and into the Azure pipeline.
- Improved Niagara Cloud Platform automated test coverage to an 85% minimum code coverage.

CARGOSPHERE CHAPEL HILL, NC
Software Developer   **Sep 2016 - Sep 2017**
Modernized legacy systems and APIs to streamline global ocean freight rate ingestion, improving data accuracy, system reliability, and partner integration efficiency.
- Managed full design and development lifecycle for initial Smart Upload and Diagnostic Solution (eSUDS) Process for Automated Rate Ingestion.
- Created Java REST backend services to parse, normalize and insert multiple rate data into PostgresDB.
- Facilitated weekly customer-support meetings with international carriers to fix bugs, demo new features, and ensure seamless integration.

FIDELITY INVESTMENTS   **DURHAM, NC**
Sr Software Engineer   **Jul 2011 - Sep 2016**
Developed and maintained enterprise-scale Java applications contributing to the processing of the End-Of-Day Pricing Cycle.
- Monitored and reported on the nightly batch process for all securities.
- Led efforts to triage and fix issues.
- Created self-service reporting and a security audit history platform that enhanced monitoring capabilities.
- Mentored and trained new hires; focusing on skill development.

EDUCATION

NORTH CAROLINA STATE UNIVERSITY   **Raleigh, NC**
Bachelor of Science, Computer Science

ADDITIONAL EXPERIENCE

BEYOND INC   (REMOTE)   **Midvale, UT**
Part-time Software Consultant   **Jan 2025 - March 2025**
- Facilitated knowledge transfer of owned applications to other teams, ensuring continuity and smooth transition.
- Provided technical support and comprehensive documentation on system architecture, process design, and data organization for My Account Portal-related code.

LASERTHERMAL INC (REMOTE)   **Charlottesville, VA**
Part-time Software Consultant   **Sep 2023 - Dec 2024**
- Advised and developed long-term strategic initiatives to drive innovation and solve complex business challenges.
- Managed a Dockerized PostgreSQL database, including schema design, data model optimization, and ongoing maintenance to ensure efficient data storage and retrieval.
- Optimized data ingestion and distribution pipelines using Python, FastAPI, and RabbitMQ; improving system performance and scalability.

Automated Dividend Capture   **2020 - 2021**
- Developed an automated system to conduct nightly stock market scans, identifying securities with the highest dividend potential based on multiple financial indicators.
- Executed strategic buy and sell transactions to optimize performance, achieving a net 20% gain in portfolio.

Cloud Enabled Motorcycle   **2017 - 2020**
- Integrated multiple Raspberry Pi devices with sensors into personal motorcycle, utilizing MQTT for real-time internal sensor data transmission.
- Stream geo-location data in real time into AWS via SQS enabling AWS Lambda processing and efficient storage in DynamoDB.
- Developed initial backend services to expose collected data for analysis, providing insights into performance and usage patterns.

INTERESTS AND HOBBIES

Ultramarathon Participant
Triathlon Participant
Second Harvest Food Bank Volunteer