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Kevin Silvera

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Software Engineer with 5 years of experience based in Alexandria, Virginia specializing in developing reliable and user-focused web applications. Known for having a strong work ethic, creativity in problem-solving, and a commitment to finding innovative and efficient solutions to complex challenges.

Work Experience

Software Engineer   **Comcast**   **Feb 2021 – Oct 2024**
PHT/Data team   Reston, Virginia, USA

- **Developed a React-based self-service UI** that enables users to monitor node statuses and track SQL database failures, reducing troubleshooting time and minimizing developer queries. Technologies: React.js, Node.js, CSS, Javascript, HTML.
- **Revamped CI/CD pipelines in Concourse**, optimizing code delivery speed and enhancing deployment efficiency across the development lifecycle. Allowing for prebuilt dev deployments before deploying to stage and production.
- **Designed and implemented microservices** using **Spring Boot** and **Java**, enabling scalable, maintainable backend services that supported critical application functionality.
- **Configured and maintained MongoDB, Redis, and SQL databases**, ensuring efficient data management, high availability, and seamless integration with core application features.
- **Developed monitoring solutions** with **Grafana dashboards** and **ElasticSearch** to enhance observability, providing real-time operational insights into microservices and improving system reliability.
- **Executed emergency deployments and hot fixes** during on-call shifts, swiftly addressing critical production issues to minimize service disruptions.
- **Automated deployment processes and secret management** with **Python scripts and Docker**, streamlining operations and reducing manual intervention.
- **Developed and Maintained GraphQL** APIs to improve data retrieval efficiency and reduce over-fetching of data.
- **Integrated and Maintained** Kafka with Spring Boot using Spring Kafka to implement asynchronous messaging between microservices using producers and consumers to enable reliable communication in our event-driven architecture.

Software Engineer I   **Brooksource** (Contractor for Comcast)   **2019 - 2021**
PHT/Data team   Vienna, Virginia, USA

- **Created a Spring Boot application** to allow technicians to remotely monitor set-top boxes and routers for service disruptions, mitigating the need for in-person visits during COVID-19 and ensuring continuous service for customers. Technologies: Java, Springboot
- **Collaborated in daily standup meetings** led by the Scrum Master, contributing to agile workflows and ensuring alignment on sprint goals and tasks.
- **Conducted peer code reviews** to maintain high-quality code standards, improve team collaboration, and ensure adherence to best practices.
- **Documented all code changes** in the project Wiki, adhering to team standards and ensuring comprehensive, up-to-date technical documentation for future reference.
- **Utilized the KCL (Kinesis Client Library)** to consume and process data from AWS **Kinesis Streams**, supporting real-time data ingestion and processing pipelines.

Technologies and Languages

- Languages: Java, Python, React.js, Node.js, Javascript, HTML, CSS
- Technologies: SQL, REST, XML, Spring, Springboot, Maven, Concourse, Jira, Github, Git, Unit tests, Docker
- Other: REST API, API, Microservices, Kubernetes, AWS, Mongodb, Redis, Kibana, Linux

Education and Certifications

- **B.Sc. Computer Science,** George Mason University, Fairfax Virginia   **2014 – 2019**