Bill Funcheon

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Summary

Highly motivated Software Engineer with a passion for creating robust software solutions that solve complex problems. Strong background in designing and implementing high-performing, distributed applications at large scale with an excellent problem-solving acumen. Constructive and dependable in collaborative environments and when working on cross-functional teams. Skilled in a variety of industry-standard tools and committed to staying up to date on emerging technologies. Eager to architect impactful, well-engineered software solutions at innovative organizations.

Technical Skills & Proficiencies

Programming Languages: Python, TypeScript, C / C++, Java, Golang, Swift, SQL, Bash
Platforms: Docker / Kubernetes, NodeJS, AWS / Azure / GCP, GNU / Linux
Tools: Git, MySQL / MariaDB, Pandas, NumPy, PostgreSQL, MongoDB, Azure Functions, Apache Spark
Industry Skills: Agile/Scrum, Jira, Bitbucket/GitHub, Code Review, CI/CD, Object-Oriented Programming

Professional Experience

AKAMAI TECHNOLOGIES INC   **CAMBRIDGE, MA**
SOFTWARE ENGINEER II   **SEPTEMBER 2022 – CURRENT**

- Analyzed existing Python application performance and implemented algorithmic optimizations and parallelization resulting in up to 66% runtime improvements while maintaining accuracy and data integrity.
- Implemented and deployed an alerting service on Microsoft Azure that provided critical visibility and enabled team to address interruptions within 24 hours and minimize data loss in future incidents.
- Designed Python applications which leveraged custom predictive models which optimized global operations in collaboration with cross-functional teams.
- Drove effort to automate monthly data aggregation procedures and adopted responsibility of process to ensure timely delivery and satisfaction for stakeholders.
- Triaged occurrences of processing interruptions of data backup pipelines and consistently performed remediation within 6 hours resulting in no data loss.
- Advocated for revision of project roadmap which resulted in immediate improvements in operational efficiency and communication between team members.
- Maintained petabyte-scale custom data warehouse for stakeholders from a diverse set of business lines.
- Implemented data retention policies that reduced historical data storage footprint by 30%.
- Authored numerous documentation artifacts which reduced knowledge gaps between team members and minimized common workflow interruptions from stakeholders.

COGITO CORP   **BOSTON, MA**
SOFTWARE ENGINEER   **JULY 2021 – DECEMBER 2021**

- Maintained and expanded infrastructure of distributed, cloud-native microservices using Docker containers on Kubernetes to support a collection of Spark ETLs.
- Designed and started implementation on the overhaul and expansion of existing internal service monitoring architecture and tools for both management and engineers.
- Refactored existing repositories systematically with features to be compatible with an improved deployment and automation tool.

CLEAR ALIGN LLC   **NASHUA, NH**
SOFTWARE ENGINEER   **JULY 2020 – DECEMBER 2020**

- Navigated and implemented Xilinx's assortment of FPGA and software libraries principally for audio/video processing and transmission applications.
- Conducted comprehensive testing procedures to validate behavior of FPGA designs and applications developed personally and by others.

Education

NORTHEASTERN UNIVERSITY   **BOSTON, MA**
Bachelor of Science in Computer Engineering & Computer Science
Affiliations & Honors: Magna Cum Laude, IEEE, Eta Kappa Nu, Honors Program, Dean's List