HarikalaPrasath A

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With over 12 years of expertise in software engineering, system design, and technical leadership, dedicated to delivering scalable and high-performance systems while driving technical excellence and impactful leadership. Experience spans architecting SaaS platforms, modernizing monolithic architectures into microservices, and empowering teams to deliver innovative solutions that align with organizational goals. Proven track record in:

- **Scalable Systems Design:** Delivered systems serving over 500 enterprises, including 40% of Fortune 100, processing millions of data points daily.
- **Performance Improvements:** Achieved 2x throughput gains and 100% faster execution by re-architecting core services.
- **Technical Leadership:** Built and mentored high-performing teams of up to 12 engineers, driving coding excellence and technical innovation.
- **Cross-Functional Collaboration:** Partnered with business, product, compliance, and support teams to align technology initiatives with customer needs.

Technical Skills

- **Programming Languages:** Python, C/C++
- **SQL Databases:** PostgreSQL, MySQL
- **NoSQL Datastores:** MongoDB, Redis, Memcached, RocksDB
- **Web Frameworks:** Django, Flask
- **Processes:** Agile, Scrum, TDD, BDD, CI/CD
- **Stream Processing:** Apache Airflow, Apache Kafka, RabbitMQ
- **Cloud Technologies:** AWS, Docker, Kubernetes, SaaS, Microservices
- **Observability Tools:** ELK Stack, Datadog
- **Development Tools:** Git, JIRA
- **Front-End:** HTML, CSS, JavaScript, jQuery
- **Other Competencies:** Architecture & Design of Scalable Distributed Systems, Technical Leadership & Mentorship, Quick Learner, Technology Agnostic

Professional Experience

L4 Senior Software Engineer, Alation Inc.   *Mar 2021 – Nov 2024*

- Delivered a high-priority feature for processing column-level data flow, achieving 100% adoption and improving customer satisfaction.
- Led the transformation of an on-prem monolithic architecture into a multi-tenanted microservices SaaS platform, serving 500+ enterprises, including 40% of Fortune 100 companies.

- Prototyped and implemented an Apache Airflow-based framework for organization-wide data processing pipelines.
- Enhanced a critical service with 100% performance improvement, and enabled 2x throughput with a configuration-based auto-scaling mechanism, processing over 20 million data points daily.
- Built and mentored a high-performing team of 12 engineers, while driving innovation through hiring, onboarding, and fostering collaboration.
- Acted as Subject Matter Expert (SME) for 5+ components, ensuring timely delivery and high coding standards. Collaborated with stakeholders on planning, estimation, and technical reviews.
- Reduced issue resolution time by 70-80% through streamlined processes and cross-functional collaboration.

Key Projects:
- Incremental Architectural Refresh of Inferred Metadata Generation
- End-to-End Lineage Processor

Key Technologies: Python, PostgreSQL, Django, Airflow, Redis, Java, GitHub Actions, AWS, Kubernetes, RocksDB, Microservices, SaaS, Datadog

Tech Lead / Team Lead, Gain Credit Inc.   *Oct 2014 – Mar 2021*
- Designed and implemented a Loan Management System handling 500K+ loans daily, improving operational efficiency and scalability.
- Developed "Drafty," a line of credit web application serving 200K+ customers, managing the project from concept to deployment.
- Enhanced developer productivity by introducing Docker and an ELK-based observability framework, reducing environment setup time by 10x and debugging time by 50%.
- Managed a team of 10+ engineers, driving sprints, planning estimations, and fostering collaboration. Led design and code reviews, ensuring architectural best practices and timely delivery of high-quality solutions.
- Architected and deployed cloud infrastructure on AWS using Terraform, integrating CI/CD pipelines using jenkins, monitoring frameworks using DataDog and improving scalability.

Key Projects:
- Lending Stream: B2C Payday Lending Web Application
- Drafty: B2C Line of Credit Product Serving ~200K Customers

Key Technologies: Python, MySQL, Django, Flask, MongoDB, Memcached, RabbitMQ, REST APIs, AWS, Docker, Microservices, ELK Stack - ElasticSearch, Logstash & Kibana

Software Analyst, Bally Technologies Pvt. Ltd.   *Aug 2012 – Oct 2014*
- Developed slot machine reporting systems and casino operator menu interfaces.

Key Technologies: C/C++, HTML, CSS, JavaScript, jQuery

Education

Bachelor of Technology (Information Technology)   *Aug 2008 - May 2012*
Dr. Mahalingam College of Engineering and Technology