Calden Michael D'Souza

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Summary

Backend and **DevOps** focused **Software Engineer** with more than **2 years of experience** designing and implementing robust release and build pipelines. Skilled in developing high-performance, scalable **microservices** that drive efficiency and reliability in dynamic environments. Adept in Cloud infrastructure and services, API development, performance optimization and database management.

Skills

- **Development**: NodeJs, ExpressJS
- **Cloud**: Azure, Google Cloud Platform (GCP)
- **Containerization**: Docker
- **Container Orchestration**: Kubernetes
- **Monitoring**: ELK, Zabbix, Uptime Kuma
- **Build Tools**: Fastlane, Jenkins, Git Actions, Gradle
- **Languages**: Python, Java, javaScript, Go (Basics)
- **Testing**: Automation testing using Selenium, Chai-Mocha

Education

BNM Institute of Technology, BE in Computer Science and Engineering — Aug 2019 – May 2023
CGPA: 9.15/10.0

Experience

Software Engineer, Numocity Technologies Pvt. Ltd. – Bangalore, Karnataka — June 2023 – Present

- Created a **cloud agnostic storage solution** to store assets, reports, invoices, logs in either local VM, Azure, GCP or AWS
- Developed a **Data Export microservice** to aggregate, clean, and transform data from Azure Tables, delivering regular Parquet files containing crucial insights for **one of India's largest company**, enabling advanced insights and visualization in their Power BI.
- Developed APIs and designed a **standardized MongoDB node package** to streamline and unify database access across projects.
- Automated manual release deployments to production using Jenkins and Ansible, enabling DevOps teams to deploy multiple releases per day with improved efficiency and reliability.
- Automated mobile app builds and deployments to Play Store Internal Test and App Store TestFlight using Fastlane, Jenkins, and Xcode, significantly reducing reliance on third-party tools and cutting associated costs.
- MLOPS pipeline for predicting when the charge-point will start failing using DVC for model and data versioning.
- Developed a **linux service (devops-agent)** written in Flask to get data from VMs and aid faster releases rather than writing jobs in Jenkins and ansible, thereby significantly reducing the job run time.
- Used **Pulumi** and Azure ARM templates to provision Azure resources and install necessary dependencies to run the product, enabling seamless and consistent infrastructure deployment that facilitated a smooth, frictionless onboarding experience.
- Optimized infrastructure costs by migrating deployments to **Azure Kubernetes Service (AKS)** using Argo CD, eliminating the need for individual VM instances.
- Set up Zabbix to monitor and alert CPU, memory, disk and other unusual vulnerabilities in production. ELK was used to provide logs for teams to debug issues.

Software Engineer Intern, Numocity Technologies Pvt. Ltd. – Bangalore, Karnataka — Feb 2023 – Jun 2023

- Automated build jobs using git actions to improve productivity also created a release manifest to version control deployments.
- Trained in containerization with Docker, infrastructure automation using Ansible, and API management with Kong.

Software Engineer Trainee, BETSOL – Bangalore, Karnataka — Jun 2022 – Jul 2022

- Automated testing for the company's internal exam platform using Python and Selenium, reducing manual testing efforts.
- Designed and developed RESTful APIs to manage user data, leveraging PostgreSQL for database operations and AWS S3.