

ASHU DAGAR

Technical Lead | Seasoned Python, K8, Microservices

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SUMMARY

Experienced Tech Lead Engineer with 11 years of exp, proficient in designing and optimizing high-performance backend systems using Python. Skilled in AWS, SQL, NoSQL, Kubernetes, Docker, CI/CD pipelines, and infrastructure provisioning. Holds an MCA in Computer Science from the University of Pune. Strong expertise in technology, design, and problem-solving.

EXPERIENCE

Technical Lead, Avalara, Pune

12/2021 - Present

Designed, developed, and maintained high-performance backend systems utilizing Python, Java, and .NET for Tax Calculation Engine. Implemented multiple microservices within a highly distributed architecture.

- Created an Active-Active Highly Distributed Architecture of 20+ microservices for high throughput and resilience
- Developed a State Machine for 10K+ accounts using Python, Prometheus & Grafana for live state monitoring using 15+ Grafana dashboards.
- Implemented Robot Framework for comprehensive testing, including Kubernetes Infra, security tests, and database schemas, microservice APIs, and hub & spoke communication with MQTT & Kafka in Python resulting in high quality system
- Utilized Terraform for infrastructure provisioning on AWS & GCP, leveraging GitLab CI/CD and Helm charts for Kubernetes deployment, enhancing scalability and maintainability.
- Oversaw communications, releases, product design discussions, on-call support, and mentorship for juniors as a lead. Presented designs to the architecture board and stakeholders.

Lead Engineer, Screen Magic, Pune

03/2019 - 12/2021

Developed APIs and backend systems for a global messaging platform for popular CRM platforms in Python. Led a team developing high-quality software engineers.

- Designed enhanced AWS architecture to support 2.5 Million async API requests/second.
- Improved the mcrypt library in cPython to support Python 2/3 and showcased it at PyCon-2020 (Python Conference Global Event).
- Designed and developed CI/CD architecture for all environments using Jenkins and Ansible. Enriched coverage reports and detailed analysis of code using SonarQube.
- Integrate Multi-Channel (WhatsApp, Line, Viber, Facebook, Google GBM, RCS) communications in the product and support new features integration.

Senior Software Engineer, Silicus, Pune

07/2016 - 03/2019

Developed Python Django REST APIs and managed deployments using Ansible and Vagrant for US Global Mail, a service facilitating mail retrieval for overseas residents via usglobalmail.com.

- Built mobile APIs using Python Rest Framework and push notifications using Python's Celery and APNS/GCM gateways.
- Integrated third-party APIs including Calendly for meeting invitations, SignNow for online document signing, and shipping carriers like FedEx and USPS.

Founding Engineer, FinAccel, Pune

10/2015 - 07/2016

Developed a comprehensive REST API system for Kredivo, a groundbreaking credit scoring app, enabling seamless access to credit for SEA's middle class.

- Implemented APIs in Python, Credit Score Engine in GoLang, App in Android
- Designed and integrated third-party APIs like Lenddo for score calculation, SMS Gateways for OTP generation, Bitly for URL shortening, Slack for internal notifications, and Boto for file uploads to S3.

Associate Engineer, Symantec, Pune

01/2014 - 10/2015

Implemented a heterogeneous web scraping system for downloading, whitelisting, and uploading APKs.

- Developed the DOT Cloud Dashboard and integrated Google Charts for project management and reporting purposes.

STRENGTHS

★ Problem Solving

Resolved critical system issues resulting in improved uptime by 20%.

🏆 Team Player

Collaborated with cross-functional teams to deliver high-quality software projects on time.

♥ Detail Oriented

Developed and deployed robust frameworks to enhance product growth and maximize business profits.

SKILLS

Python · Flask · Django · Celery ·

Amazon AWS Services · K8 · Docker ·

Terraform · Grafana · Prometheus ·

Design & Architecture · REST APIs · Kafka ·

MQTT · RabbitMQ · MySQL · PostgreSQL ·

MongoDB · JIRA ·

CI/CD · GitLab/Jenkins/Ansible/Helm ·

Git · Confluence · Linux · Mac

EDUCATION

MCA in Computer Science

University of Pune

2011 - 2014

Pune, MH

BCA in Computer Science

GGSIU

2008 - 2011

New Delhi

ACHIEVEMENTS

💎 Avalara Spot Award for Q1/2021

☆ 'Employee Recognition Award' Twice in Symantec

👏 'Best Software Developer Project' in Master's (MCA) 2011-14 Batch