

Vivek Ayer

DATA/BACKEND ENGINEER

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Summary

Generalist engineer and aspiring entrepreneur currently focused on natural language processing systems.

Experience

Software Engineer

San Francisco, CA

RESTLESS BANDIT

2016-2020

Senior member responsible for ETL and application backend systems as well as infrastructure.

- ETL
 - Extended and maintained internal Standardization Service, a RESTful on-demand AI / ML model serving layer.
 - Developed and maintained data pipeline between primary data stores (e.g. PostgreSQL to Redshift and Elasticsearch).
- Application Backend
 - Led implementation of schema migration system using Sqitch.
 - Built and maintained Swagger-generated API.
 - Maintained in-house email scheduling service.
- Infrastructure
 - Created and managed key data integration infrastructure (e.g. to allow customers to export database dumps to SFTP servers).
 - Developed model management and deployment system utilized by both on-demand & batch processing flows.
 - Maintained in-house Spark scheduling service.
 - Built and maintained Ansible configuration management and deployment system, which was later migrated to Kubernetes and Terraform.

Senior Software Engineer

Mountain View, CA

ONESIGNAL

2016

Developed iOS and Android SDK components for flagship product.

Senior Engineer

Berkeley, CA

NEWFIELD WIRELESS

2009-16

Senior engineer responsible for deployments, builds, releases, integration testing, and customer contact.

- Built and maintained Ansible configuration management and deployment system for flagship product.
- Worked directly with customers to resolve issues on production systems.
- Designed a telemetry system using Collectd, InfluxDB, and Grafana.
- Maintained flagship product's integration test framework, increasing overall test coverage by 40%.
- Built and maintained the entire Jenkins build system.
- Developed a K-means clustering application to assist RF engineering with clutter modeling.

Skills

Programming	Python (experienced), Go (experienced), Bash (proficient), Rust (learning), OCaml (learning), C++ (previous), R (previous)
Python	Flask, FastAPI, NumPy, pandas, sklearn, PyTorch, spaCy, matplotlib
Data Handling	PostgreSQL, Elasticsearch, Redis, Spark, Parquet, Delta Lake, Airflow, RabbitMQ, GraphQL, MS SQL
Infrastructure	Kubernetes, Terraform, Docker, Vault, Drone, Ansible, Prometheus, Sqitch, Collectd, InfluxDB, Grafana, Jenkins
AWS	EKS, EC2, EMR, SageMaker, S3, RDS, Redshift, ElastiCache, Route 53, CloudWatch, VPC
Hobbies	Piano, Tennis, Electronic Music Production, Hiking, Learning Languages
Languages	English (fluent), Tamil (fluent), Turkish (conversational), Portuguese (learning), Catalan (learning)

Education

BS in Chemistry

Charlottesville, VA

UNIVERSITY OF VIRGINIA

2007

BA in Physics

Charlottesville, VA

UNIVERSITY OF VIRGINIA

2007