

WORK EXPERIENCE

Founding Engineer - Anoki Inc

Mountain View, CA, USA | June 2023 – Sept 2025

- Led development of ContextIQ, enabling contextually powered ad placements for CTV.
- Architected event-driven video ingestion pipeline for 500+ CTV channels with auto-scaling.
- Architected real-time sentiment and topic analysis pipeline for CTV news streams.
- Developed Go-based CTV live stream recorder deployed via on-demand Kubernetes jobs.
- Delivered full-stack app for multimodal contextual search using Svelte, Python, Go, GraphQL, MySQL, and vector DB.
- Created recommendation service for CTV channels, driving hyper-personalized experiences.
- Authored golib-consul, a Go library for Consul based service discovery and config management with inheritance support.
- Designed GraphQL APIs for content management and scheduling of new providers.
- Engineered cloud-native infrastructure handling 300k QPS with 99.99% HA using L4/L7 load balancers, caching, and Kubernetes.
- Optimized AWS resources, reducing monthly costs by 40%.
- Deployed Presto and Superset for analytics and reporting on viewership data.
- Partnered across engineering, infrastructure, data science, and product teams to deliver end-to-end solutions.

Software Engineer Intern - PayPal

New York City, NY, USA | May 2022 – August 2022

- Added static type safety for GraphQL resolvers based on a schema-first design philosophy.
- Used TypeScript and Codegen to generate type-safe GraphQL resolvers, increasing code maintainability.

Senior Software Engineer - LG Ads

Bangalore, KA, India | June 2017 — June 2021

- Achieved 5x latency reduction in large-scale fingerprint distribution for the Automatic Content Recognition (ACR) system in CTV.
- Led core platform development initiatives, enhancing monitoring and logging capabilities.
- Managed infrastructure projects including load balancers, petabyte-scale storage, and multi-hundred-node compute clusters.
- Joined as one of the first 10 engineering employees; contributed across ACR, Platform, and Data Science teams.

Google Summer of Code - Python Software Foundation

Bangalore, KA, India | April 2016 – August 2016

- Built AngularJS and Python based interactive static code analysis application with 97% code coverage for frontend and, 100% for backend.
- Presented a workshop on "Guide to open-source contributions using Git and CI/CD" at EuroPython conference in Bilbao, Spain.

SKILLS

Programming Languages – Go, Python, NodeJS, TypeScript. **Cloud and Platforms** – AWS, Kubernetes, HaProxy, Consul, Ansible, Prometheus, Grafana, Linux IP tables, Spark, Airflow, Presto, Kafka, HDFS, Ceph, Apache Superset. **Protocols and Databases** – TCP/IP, REST, gRPC, GraphQL, MySQL, MongoDB, Cassandra, Redis, Elasticsearch. **Web Technologies** – HTML, CSS, Svelte/SvelteKit, AngularJS. **Other Skills** – Code Review, Debugging.

PATENT

- **System For Contextual Searching Using Text Search Terms** (Sr No. 18/581,329) Feb 2024

EDUCATION

M.S, Computer Science, University of Colorado, Boulder

Aug 2021 – May 2023

B.Tech, Production Engineering, National Institute of Technology, Trichy

July 2013 – May 2017

RELEVANT COURSES

Advanced Data Structures and Algorithms, Network Systems, Operating Systems, Distributed Systems, NLP, Deep Learning, Database, Blockchain.

RECENT PROJECTS

- **Image Defogging using DDPM** : Utilized a U-Net-based generative model combined with a linear noise scheduler to perform image defogging on the Foggy Cityscapes dataset. May 2023
- **Distributed Config Deployment**: Designed and implemented fault-tolerant system based on spanning tree topology using gRPC as communication layer. Applications being multi-region config deployments, P2P data streaming etc. Built as a grad school project. [Github], [YouTube] Dec 2022
- **SemEval-2022 Task-4**: Detecting patronizing and condescending language with fine-tuning RoBERTa LLM. [Github] Dec 2021