

KESHAVA RANGA DATTA RAJAVARAM

keshava.rajavaram@gmail.com ◇ Github ◇ LinkedIn ◇ Portfolio (+1)(480)796-2223

EDUCATION

Arizona State University

M.Sc Computer Science

Aug 2023 - May 2025

Overall GPA: 4.00/4.00

Birla Institute of Technology and Science, Pilani, India

B.E Electronics and Instrumentation

Aug 2019 - Jun 2023

Overall GPA: 8.35/10

PROFESSIONAL EXPERIENCE

FlairX | Software Engineer Intern | San Francisco(Remote), USA

Mar 2025 - May 2025

- Fixed a **TypeORM** schema-sync bug that silently dropped columns, **safeguarding 10+ tables** from data loss.
- Implemented multi-host scheduling logic (**Zoom SDK + PostgreSQL**) that lifted daily interview capacity **8 to 40+** slots and eliminated backlogs during traffic spikes.
- Architected a **delayed-job queue** using **PostgreSQL** for SMS interview reminders, **cutting reschedules by 30%**.
- Delivered a **Node.js/Chart.js** analytics dashboard, benchmarking interviews for **100+** active job postings.
- Enhanced observability with structured **Winston** logging and **AWS S3** archival, **reducing debug time by 40%**.

True Mates | Software Engineer Intern | Los Angeles(Remote), USA

Jun 2024 - Feb 2025

- Implemented in-house subscription webhooks, exposed as Node.js APIs on **Google App Engine**, to manage App Store and Google Play renewals, **eliminating 100% Stripe transaction fees**.
- Automated resource de-provisioning with **Python + GCP Cloud Run** functions, analyzing utilization patterns to schedule shutdowns and **trim cloud spend 42.5%**.
- Led backend development in a cross-functional team, scaling for **500+** users, indexing **PostgreSQL** tables and optimising **Express.js REST APIs** to slash p95 match-fetch latency **30s - 3s (-90%)**.

HERE Technologies | Data Science Intern | Mumbai, India

Jan 2023 - Jun 2023

- Clustered **7K+** EV GPS traces with **DBSCAN** in **GeoPandas**, exposing high-traffic route hubs and **identifying 6+ prime charging-station sites**.
- Leveraged **Pandas** for QA on **5K+** charging-session logs, **fixing schema gaps and nulls**, and generated a six-month synthetic dataset (30K rows) to boost **accuracy 25%** and **completeness 14%**.

Qualcomm | Interim Engineering Intern | Hyderabad, India

May 2022 - Jul 2022

- Developed a **Python** scripting tool for system on chip path-tracing, reducing manual effort from **120hrs to 5 mins**.
- Introduced a **source-target** path tracing **algorithm** with pin-path validation, pushing **error detection rate by 40%**.

PROJECTS

Trikona | Go, Gin, Gorm, PostgreSQL, AWS EC2, REST APIs, Git, Github

[Demo](#) | [Github](#)

- Designed a domain-strict Go modular-monolith, skipping **100%** hop latency and easing future micro-service splits.
- Cross-compiled a 30MB static **Go binary** (ARM64) and deployed it under **systemd** on **Amazon Linux EC2**, cutting release time **90%** and enabling single-file rollbacks.

StockCentral | Node.js, Express.js, React, JavaScript, TypeScript, Docker, AWS

[Demo](#) | [Github](#)

- Built a full-stack investment tracker that ingests portfolio CSVs from **3** brokerages and auto-consolidates holdings.
- Administered a robust backend with **PostgreSQL** for reliable data storage, designed responsive frontend interfaces with **Tailwind CSS** and automated deployment processes using **Docker** and **GitHub Actions**.

FashionFinder | Python, PyTorch, YOLOv8, HF Transformers, FAISS, OpenCV, Windsurf

[Github](#)

- Crafted a scalable backend to process short videos—detecting garments (**YOLOv8**), embedding crops (**CLIP**), matching to a 250-item catalog (**FAISS**), and assigning style vibes based on captions/tags via **zero-shot classification**.
- Optimised pipeline with frame-sampling, batched-inference, and in-memory FAISS warming, **cutting runtime 70%**.

SKILLS

Languages Go, Python, C/C++, Java, Javascript, TypeScript, HTML/CSS, PHP, SQL, Data Structures, Algorithms
Frameworks Node.js, Express.js, React, PostgreSQL, MongoDB, Springboot, Redis, Pytorch, Langchain, Supertest, Jest
Tools AWS, GCP, IAM, Windsurf, Postman, Linux, Git, Docker, Firebase, Kafka, JIRA, Selenium, Puppeteer

CERTIFICATIONS

- **AWS Certified Cloud Practitioner** | 2024