Long Beach, CA
www.linkedin.com/in/amogh-raj-r/

AMOGH RAJ R

+1 (562) 841-6918
amoghraj096@gmail.com

EXPERIENCE

Senior Software Engineer	ZopSmart (Kroger)	Oct 2021 – Dec 2022

- **Led** a team of **six developers** in the replacement of an old legacy system for enterprise-wide customer data management.
- Worked on an application to migrate bulk data of around **500 million** records from old databases to new databases in a timely and efficient manner, reducing the migration time from several days to under **36 hours**.
- Centralized all the PII data, which was spread across **10+** systems and reduced the **privacy risks**.
- Optimized APIs to meet **SLAs** of **<150ms** for READ & DELETE operations and **~200ms** for POST, PUT, and PATCH operations while maintaining a throughput of **3000tps.**
- Improved transaction logic across all services, leading to an improvement on SLAs by **20ms** per request.

Software Engineer	ZopSmart (Kroger)	May 2019 – Oct 2021

- Built a Micro framework in **Golang** which is easy to use and provides familiar abstraction.
- Wrote an Orchestrator to handle all the complex use cases by managing the calls between legacy and new systems.
- Evaluated alternate dB solutions based on performance requirements, with queries performing under **6-8 ms**.
- Refactored legacy codebases, created documentation, and achieved a **40%** decrease in test execution time.
- Wrote extensive test suites and automated them for the whole codebase including unit, integration, load and smoke tests.
- Built, Deployed and Maintained **8+** core microservices with hits per day averaging at **50 million**.

Data Engineer	Honeywell Technology Solutions	July 2018 – May 2019

- Built massive ETL workflows using **Alteryx**, Talend and visualized them using **Tableau**.
- Gave numerous POCs on **AI-driven** and search-based analytics tool like H20.ai, KNIME, PowerBI etc.
- Handled the report design and overcame challenging design problems as a CXO Tool **SME** (Subject Matter Expertise)

EDUCATION

Long Beach, CA	California State University Long Beach	Jan 2023 – Present

- M.S. in Computer Science. **GPA: 4.0/4.0**
- Coursework: Advanced Algorithms, Advanced AI, Advanced Topics in Programming Languages, Pattern Recognition

Bangalore, India	PES Institute of Technology	Aug 2014 – Jun 2018

- B.E. in Computer Science. **Aggregate: 73/100 (First Class with Distinction)**
- Coursework: Data Structures and Algorithms, Graph Theory and Combinatorics, Compiler Design, Operating Systems, Computer Networks, Object Oriented Programming, Software Architecture, Artificial Intelligence

SKILLS

Languages and Frameworks: Golang, Python, JavaScript, C++; ReactJS, Django, NodeJS, Pandas, HTML, CSS
Databases: MySQL, MongoDB, YugabyteDB, PostgreSQL, MSSQL, Cassandra
Tools: AWS, Azure, Git, Redis, Docker, Kubernetes, ElasticSearch, Spinnaker, Rancher, Sonar, Postman, Swagger, Dynatrace, Kibana, Prometheus, Harness, HELM, JMeter, Wireshark, NS2
Data Analytics & Visualization: Alteryx, Tableau, Talend, Matplotlib, Plotly, D3.js, PowerBI

PROJECTS

- **Data Loader Framework** (2021). Wrote a flexible data loader framework to simplify migrating data between sources and destinations, incorporating specific filters and transformations. Simplified data intake across CSV, JSON, SQL, Postgres, and Cassandra formats, while also supporting equivalent output choices. **(Golang, SQL, PostgreSQL)**
- **Career Path Prediction** (2018). Devised ML strategy using user inputs for personalized stream recommendations based on skills, accompanied by targeted skill advancement advice. **(Python, Pandas, NumPy, JavaScript, HTML, CSS)**

OTHER ACTIVITIES

- Interned at **Dexecure** during my B.E where I provided POCs to clients by optimizing their websites by optimizing the contents (HTML, images, CSS, JS, videos)
- Served as **Teaching Assistant** for Computer Networks and Security during my Bachelor's.
- Conducted sessions on Python programming and fundamental Machine Learning topics, including Data Cleaning, Transformation, Model Building, and Visualisation, to colleagues at Honeywell.
- **Tech Tuesdays**: Hosted weekly tech presentations at ZopSmart.