Vishal K S

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Work Experience

Core Backend Developer, Bestever   **Golang, GCP, Shopify,**
July 2021 - September 2021 (Core product)   **Postgres, Gitlab, Asana**

- Core member of a remote pre-seed startup based out of San Francisco.

- Designed, developed and deployed onto GCP the backend for the iOS, web, and the Shopify app as the only backend dev in a total team of 5.

- Designed and developed an optimized no repeat video reviews feed tailored for each user

Software Engineer II, Akamai Technologies   **Full Stack, Postgres, Spring,**
July 2018 - June 2021 (Developer Productivity)   **ELK, ML, Atlassian tools**

- Developed and deployed over 200 monitoring metrics for critical systems of Git, Jira, Confluence and Perforce for Akamai, with almost negligent performance impact to the systems involved.

- Designed and developed the front end and back end for an internal git auditing tool for Akamai. Set up apache, Postgres, mount points along with their replications with their DR (Disaster Recovery) site and handled the application from an admin perspective.

- Helped in designing the distributed proactive monitoring as a service application for the teams in Akamai. Guided the team in deciding the learning algorithms involved in suiting our requirements.

Internship Experience

Software Engineer Intern, TigerGraph   **Java, Protobuf, Graph**
June 2022 – September 2022 (Query Optimization)   **DB, GSQL, Junit, Docker**

- Feature to retrieve statistics and histograms for edge & datetime attributes for transition from heuristic to cost based optimizer, merged to latest release.

- Designed and developed DDL statements capability for creating/showing/ dropping histograms through the GSQL shell. Merged to latest release.

- Designed and developed post process hooks to clear statistics on drop of vertex/edges/graphs. Designed and covered test cases for all features.

Service oriented analytics, Intern, Walmart Labs   **Java,Spring,Jersey**

- Designed and developed RESTful APIs for a URL crawling scheduler.

- Designed, developed APIs and wrote unit tests with Junit/Mockito for the dashboard whose data will be consumed by many other teams.

Academic Experience

Generation of chords given the melody   **Machine learning, Music**

- Generated the chords of a music sequence given a melody for the aid of beginner pianists.

- Generated a dataset of melody/chords mapping by recording Midi data of classic pop songs.

- Trained the mapping with the help of KNN-HMM mapping, CNN, LSTM, and other models, and analyzed performance of each models.

- Generated both melody and chords given the mapping with the help of a n-gram learning model.

Education

Master of Science, Computer Science
Specialization in Databases
UC San Diego
3.86 GPA   2021-03/2023

Bachelor of Technology, Computer Science
Specialization in Data Science
PES University, Bangalore
9.44 CGPA   2014-2018

Skill Set

- Database engine/optimization
- Web applications (Backend/Frontend)
- Postgres/MongoDB/Redis
- Distributed Systems

Achievements

• Akamai Global Hackathon
1st place(10+ regions)
Super resolution of videos at client side to improve experience for low bandwidth regions

• CNR Merit Scholarship
Obtained scholarship for being in the top 20% performers for 4 consecutive years in College

• Extracurriculars
Gold in Carrom and Mad ads in School Silver for two consecutive years of school football tournament

Volunteer Work

Make a Difference
June 2018 – June 2020

Tutoring 9th standard kids at a shelter home to get a good grade in the subject of Science as part of the NGO, Make a Difference