Gaurish Anvekar

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EDUCATION

M.S. in Information Systems
Santa Clara University, CA
GPA: 3.82 / 4.0
Jan 2021 - Dec 2022

B.E. in Information Science
SJCE, Mysore, India
Sept 2011 - June 2015

LINKS

- **github**
- **linkedin**
- **medium**
- **leetcode**

SKILLS

Programming
Javascript • TypeScript • Java
Python • PL-SQL • C++
C • Go • C#

Web Technologies
Node JS • Express • React JS
Oracle-ADF • Bootstrap • Spring
Python Dash • Oracle-Forms • Plotly
HTML • CSS • JQuery • Nest JS

Applied Machine Learning
Deep Learning • CNNs • RNNs

Databases
BigQuery • Oracle-DB
MS-SQL Server • MongoDB
My-SQL • DocDB • ChromaDB

Other Tools/Tech
GitLab • ECS • Pulumi • PyTorch
Android • OpenGL • OpenCV
FFmpeg • DASH/HLS • WebRTC
Socket.IO • Redis • Hadoop
Jenkins • MATLAB • BigQuery
CloudPubSub • Fargate
ShakaPlayer • Docker • H.264
Postman • S3 • RESTful APIs
Fluent-UI • Standard-version

COURSEWORK

Graduate Studies
Big Data Modeling & Analytics
Cloud Computing - Virtualization
Object Oriented Programming
Information Systems Analysis

Undergraduate Studies
Data Structures & Algorithms
Operating Systems
Computer Networks
Software Architecture

EXPERIENCE

Moderna - Software Engineer II - AI/ML Platform | Seattle, WA   May 23 - Oct 24
- Part of a team building Moderna's AI/ML GenAI platform, on top of the in-house "Compute platform", to democratize AI models and fine-tuning across all teams.
- Implementing above platform with Pulumi's IaaC in TS to provide closed + opensource models, hugging face models, & GenAI based information retrieval.
- Built 2 products on top of above platform - "mChat-app" & "mChat-lite"(browser extension) - for LLM based QA, document QA & website QA - used company-wide.
- Built end-to-end workflow for doc-based "Information Retrieval" - doc chunking, ingestion, retrieval (semantic + keywords(bm25)), LangChain summarization.
- Tech: Node JS, Typescript/Javascript, Python, Cypress, AWS ECS, Docker, Pulumi, Weaviate, ChromaDB, LangChain, React JS, Nest JS, Anthropic, OpenAI SDKs.

Zulily - Software Engineer II - Big Data | Seattle, WA   Jan 23 - Mar 23
- Built a new experimenting feature on the existing A/B Testing framework, to provide new user segments for stakeholders - Data Scientists, Analysts.
- Tech: Python, GCP, BigQuery, Cloud PubSub, Terraform, Airflow, Dash, Java.

Dolby Labs - Software Engineer Intern - Dolby Vision | Sunv, CA   June 22 - Sept 22
- Implementing "Dolby Vision" video (HDR) tech for Android using highly optimized, parallelized code based on GPU compute shaders, to achieve real-time rendering of "Dolby Vision" video. Tech: C++, Java, Android, OpenGL ES.
- Fixed 3 months pending task to improve picture quality (SM score), by scouring 20K lines of codebases in C++, Java, MATLAB.
- Fixed a high-priority bug, to avoid redundant processing of "Dolby Vision" at app & hardware-level on Xiaomi, Samsung devices, by inspecting NAL units.

Myelin Foundry - Product Developer - AI & Video Tech | Blr, India   April 19 - Oct 19
- Implemented a prototype called SRAAS - "Super Resolution as a Service", to upscale videos from 240p to 720p in real-time on GPU (in-house AI model). Tech: GCP, Python, JS, Deep Learning, PyTorch, Node JS, FFMpeg, OpenCV.
- Implemented upscaling using a Deep-Learning AI micro-service written in PyTorch, which sends upscaled video segments (DASH) to a NodeJS server through IPC, & served to a front-end video player (Media Source Extension). Demo - **SRAAS**
- Use Cases - Reduce CDN storage cost for OTT (Over-the-top) platforms by only storing low to SD videos (86% storage saved), & upscaling in real-time.
- Videos not shot in HD can now be upscaled in real-time for better QoE.

CAI Solutions - Software Engineer | Blr, India   Dec 15 - Jan 19
- CAI specialized in Retail Software Systems with Oracle Retail Suite.
- Implemented a successful web product - "Like Store", using Forms, ADF, PL-SQL, Java & Spring for a top "Sporting-Retailer" - 250 stores in 16 states in the US - to reduce time taken to open a new store from 3 months to < 15 days.
- Optimized SQL & Oracle-DB tuning, to reduce startup time of initial screen (10s to 4s), to display client's merchandise hierarchy (4M SKUs).
- Usage of Pro-C/C++ over PL-SQL, for compute-efficiency.

PERSONAL PRODUCTS

Easy School | easyschool.academy | NodeJS, ReactJS, MongoDB, DigitalOcean
A SaaS product - "EasySchool", for new schools/universities to set up their management system with features - "Virtual Library", "Online Lecture".

Parallel PDF Creation | pypi.org
A python package (tool) for "Analysts" to quickly create PDF files out of DataFrame rows, using "Parallelism" concepts - 1000 PDFs in < 2 mins.

ADDITIONAL INFORMATION

- Highly interested to be a part of a team building robust & impactful systems.
- Keen interest in reading engineering blogs.   **medium.com/GaureeshA**
- Implemented distributed systems concepts in GO - MapReduce, RAFT etc.