Aman Nagarkar

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EDUCATION

Santa Clara University   Santa Clara, CA
Master of Science in Computer Science and Engineering   September 2021 - June 2023
Relevant Courses: Distributed Systems, Big Data, Object Oriented Analysis and Design Programming, Deep Learning

Savitribai Phule Pune University   Pune, IN
Bachelor of Engineering in Computer Science   August 2015 - July 2019

SKILLS

Programming Languages: Java, Python, JavaScript, Go Lang, Node.js, React.js, C++.
Cloud Technologies: Google Cloud Platform (GCE, GCS, Firebase), Amazon Web Services (EC2, S3, SQS, Lambda, DynamoDB, SageMaker)
Other Technologies: Docker, Kubernetes, Snowflake, Spark, FastAPI, SQL(Postgres), NoSQL(Cassandra, MongoDB), Kafka.

WORK EXPERIENCE

Software Engineering Intern at **KLA Corporation**   June 2022 – September 2022
- **Architected a recommendation system** for optimizing the company's search engine, **leveraging the company's knowledge-base** with a prediction **accuracy of 0.52**.
- Developed an **automated ETL pipeline** to preprocess incoming data into the SQL database, streamlining data processing efficiency by and **eliminating 200 hours of manual data tagging**.
- **Deployed system as a microservice** to be consumed by the frontend, displaying key metrics as interactive visualizations.

Co-Founder & Software Engineer at **Vint Media**   February 2019 – July 2021
- **Led a team of 3 to develop robust web applications** for clients from various domains, while working with cross functional teams, ensuring the timely delivery of software systems.
- Consulted with stakeholders in tech start-ups to **gather functional requirements, and review current design** needs through conducting user-research, employing information architecture, refining visual design, and optimizing workflows.
- **Responsibilities included modularising legacy codebase to modern standards, evaluating the impact of customer churn on business growth, container orchestration of applications for faster deployments, testing to improve code coverage and reliability.**

Software Engineer Intern at **Accurate Risk Managers**   June 2018 – September 2018
- Collaborated with data scientists to **implement machine learning models utilizing the company database** for risk assessment of new cases, enabling risk mitigation, and increasing fraud detection by 20%.
- Improved risk assessment with a machine learning model that **predicted cases with an F1 score of 0.82**.

Data Analyst Intern at **Vasu Infosec**   January 2018 – March 2018
- Conducted **exploratory data analysis to identify trends and patterns** in the consumer sales data resulting in **increasing revenue by 7%** by identifying market segments and target customers for the company's products.

PERSONAL PROJECTS

Waiterless Restaurant System | *Android Studio, Java, Google Cloud Platform, Angular, SQLite, MongoDB*
- Built a full stack android application using GCP, v2 DialogFlow agent and Firebase to build a virtual assistant with speech recognition. Implemented a real-time notification system using Firebase Cloud Messaging

Recommendation System with Topic Modelling using BERTopic | *React.js, Node.js, TensorFlow, BERTopic, NLTK, Docker*
- Incorporated a custom tokenizer to pre-process the text data and improve the performance of the BERTopic model. Trained a BERTopic model for topic modeling on text data to develop a recommendation system with a coherence score of 68%

Pub-Sub System for Financial Data | *Python, AWS (SNS, SQS), PostgreSQL, Docker, Kubernetes*
- Designed and developed a distributed pub-sub system to handle real-time financial data streams. Implemented fault tolerance and scalability features using Docker and K8's to ensure system availability and easy deployment