Parth Doshi

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EDUCATION

Purdue
West Lafayette, IN

B.S. Computer Science: Machine Intelligence, B.S. Mathematical Statistics
Aug. 2016 – Dec 2019

EXPERIENCE

Fathom Health
Remote/NYC

Software Engineering Team Lead
Jan. 2022 – Present

- Designed and created complex ETL (extract, load, and transform) and reverse-ETL pipelines transferring tens of thousands of HIPAA records a day.
- Integrated ≥10M historical healthcare records (∼1TB of unstructured text) and aligned them to the individual guidelines of more than 100 individual hospitals for model finetuning.
- Led training and deployment of medical coding NLP models for multiple hospital conglomerations (ex. TEC Health).

Software Engineer
Jan. 2020 - Jan. 2022

- Implemented post-model data transforms to filter, clean, and combine model predictions.
- Achieved a 10x model-train speedup by helping move model training to TPUs from GPUs allowing Fathom to feasibly train larger models and gain accuracy.

Microsoft
Redmond, WA

Software Engineering Intern
May 2019 – Aug. 2019

- Automated provisioning and deprovisioning of roles to provide just-in-time (JIT) access of production Azure resources based on an inputted on-call schedule.
- Reduced each team's surface of attack by as much as 70% by restricting the roles based on the duties required for each on-call role.

Viptela
San Jose, CA

Software Engineering Intern
Jun. 2018 – Aug. 2018

- Predicted complex cross-platform network topologies by evaluating and applying multiple ML models. (random forest classification, logistic regression, and SVMs)
- Managed and built an application that deployed the predicted network onto AWS and hypervisor platforms (ESXi and KVM).

Cisco Systems
San Jose, CA

Software Engineering Intern
Jun. 2017 – Aug. 2017

- Created queryable multi-variable network heatmaps with subsecond performance over 300 million values of real-time temporal data.
- Analyzed resulting heatmaps to ascertain the performance of wireless access points in various positions.

PROJECTS

Personal Website | *React, Gatsby, GraphQL, JavaScript, Strapi*

- Fashioned my own website with pages for my portfolio, blog, and resume.
- Implemented Strapi on my custom website as a Content Management System (CMS) to enable fast updating and reduce maintenance.

Fabel | *TensorFlow, Python, React, Electron*

- Applied Google's BERT neural network to create document embeddings for newly downloaded files.
- Used cosine similarity on the embeddings to label documents based on the user's previous labels.

Dimensional Beats | *C#, Monogame*

- Led a team of peers to create a game based on music.
- Analyzed music samples to find beats and synchronized them to specific in-game events based on beat frequency and type.

TECHNICAL SKILLS

Languages: Python, SQL (BigQuery), JavaScript, TypeScript, HTML/CSS
Frameworks: Airflow, DBT, Spark, Beam, React, Node.js, Flask, TensorFlow
Developer Tools: Git, Docker, Google Cloud Platform (GCP), Kubernetes