Vandit Patel

3rd Year Computer Engineer | Software Developer

VanditPatel1.github.io
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Skills

Core Languages: Python, C & C++, Scala, Matlab, SQL, ARM Assembly, R, Bash, JS
Database and Servers: PostgreSQL, MySQL, Apache2, SQLAlchemy, Redis, RabbitMQ
Frameworks and Cloud: AWS, Kubernetes, Docker, Flask, Django, Airflow, Celery, Flower

Work Experience

Asana | Data Infrastructure Engineering Intern // May - Aug 2019

- Productionized machine learning models to predict customer churn and analyze 1.2 terabytes of data
- Designed system to reindex hundreds of Redshift tables while minimizing disk space by over 35%
- Implemented autoscaling Jupyter notebook viewer on Kubernetes for sensitive analytics sharing

OPTrust | Data Engineering Intern - Investments Team // Sept - Dec 2018

- Orchestrated over 10 pipelines through Apache Airflow to provide overnight analysis for traders
- Integrated system to map data steams from Bloomberg, HFS Financial and two more providers
- Designed dynamic parsers to analyze 100s of portfolio hierarchies through one central system

Acerta Analytics | Software Engineering Intern // Jan - April 2018

- Developed API with Flask to monitor and submit large-scale data processing jobs to internal platform
- Implemented a hot storage structure in S3 to improve the Data Science teams analysis times by 20%
- Integrated pipelines to preprocess and analyze 2.5 terabytes of data from multiple automotive plants

Conrad Centre | Software Engineering Intern // May - Aug 2017

- Integrated a distributed task queue to handle time-consuming workloads on separate processes
- Mined 1000s of email and text conversation data sets to train customer service NLP chatbot

Passion Projects

Cybitrage (Arbitrage Generator) | Python - Pandas - Flask - JS - React

- Arbitrage opportunities discovered from over 16 currencies with real-time conversion rates
- Custom implementation of Bellman-Ford algorithm to spot opportunities with returns over 2 %

NHL Player Heat Maps | Python - Plotly - Azure - PostgreSQL

- Analyzed individual player shots over the full hockey season to determine the variety of goals scored
- Developed scripts to mine the NHL API and preprocess 100s of in-game data to analyze players

Hype Culture Site Mining | Python - Scrapy - Pandas - Celery

- Launched service to mine “hype culture” sites and provide realtime updates on product launches
- Provided live Slack channel updates to buy new product releases quickly and resell for a profit

Education

University of Waterloo | Bachelor of Computer Engineering // 2016 - Current

- University of Waterloo President Scholarship of Distinction

Stanford University | Machine Learning Course // 2018