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

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Work Experience

Asana | Data Infrastructure Engineering Intern   // May - Aug 2019
- Productionized machine learning framework to predict customer churn and analyze terabytes of data
- Designed system to reindex hundreds of Redshift tables while minimizing disk space by over 35%
- Customized open source Jupyter notebook viewer to allow for easier data science collaboration

OPTrust | Data Engineering Intern   // Sept - Dec 2018
- Orchestrated over 10 pipelines through Apache Airflow to provide overnight analysis for the firm
- Integrated system to map data steams from Bloomberg, HFS Financial and two more providers
- Designed dynamic parsers to analysis 100s of portfolio hierarchies through one central system

Acerta Analytics | Software Engineering Intern   // Jan - April 2018
- Developed REST API to monitor and submit large-scale data processing jobs to internal platform
- Implement a hot storage structure in S3 to improve the Data Science teams analysis times by 20%
- Integrated pipelines to preprocess and and analyze 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

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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 in-game data to produce player aggregates

Hype Culture Site Mining | Python - Scrapy - Pandas - Celery
- Launched service to mine "hype culture" sites and provide realtime updates on product launches
- Provide live Slack channel updates to buy new product releases quickly and resell for a profit

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Education

University of Waterloo | Bachelor of Computer Engineering   // 2016 - Current
- University of Waterloo President Scholarship of Distinction

Stanford University | Machine Learning Course   // 2018