

Wojtek Swiderski

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Skills

Languages Python, Golang, C/C++, Java, JavaScript (ES6), OCaml, Rust, Scala

Technologies Spark, AWS (S3, EMR, EC2), Docker, Kubernetes, Redshift/Snowflake, RDBs, XGBoost, PyTorch, scikit-learn, Celery

Tools Vim, Unix, Bash, Git, IntelliJ, Sublime Text

Experience

Affirm

San Francisco, California

SENIOR SOFTWARE ENGINEER - MACHINE LEARNING

August 2019 - Present

- Implemented the Loan Transition Model and Cashflow Engine which, in tandem, predict the amortization of loans in our portfolio
- Added support for PyTorch-based models, both in online and batch inference environments
- Oversaw the development and deployment of underwriting and fraud models aimed at the Affirm Anywhere product
- Established the core ML monitoring infrastructure for the team
- Built a Python micro-service that serves ML model predictions to Affirm's online decisioning system

Affirm

San Francisco, California

SOFTWARE ENGINEERING INTERN

September - December 2018

- Built a framework for distributed hyperparameter tuning
- Improved credit model training time from 30 to 2 hours, without degrading model performance

Jane Street

New York, New York

SOFTWARE DEVELOPER INTERN

January - April 2018

- Built a market-data feed that consolidated currency data from multiple sources using a schedule-based configuration
- Developed a version controlled temporal key-value datastore

Oscar Health

New York, New York

SOFTWARE ENGINEERING INTERN

May - August 2017

- Worked on improving the relevancy of doctor search using learning to rank methods based on linear models
- Developed service that approximates travel time from member to doctor using Google's S2 geometry library

Quora

Mountain View, California

SOFTWARE ENGINEERING INTERN

August - December 2016

- Launched a machine learning model based on gradient boosted trees for related questions ranking that increased signups by 5.5%
- Decreased training time from 3 hours to 5 minutes by parallelizing extraction of natural language features such as Word2Vec and TFIDF similarities and historical features such as question covisits
- Refactored caching layer for related questions resulting in 90% less lines of code and removal of a deprecated caching abstraction

Uber

San Francisco, California

SOFTWARE ENGINEERING INTERN - UBER FOR BUSINESS

January - April 2016

- Individually built three language agnostic services responsible for centralized payments using Python/Tornado and Thrift
- Architected payment transaction service used to route transactions to data centers in accordance with international data privacy laws
- Designed data models for payment account metadata to be stored in Uber's distributed wide column datastore, Schemaless

Recent Projects

Spectrum

- Built a real-time 3D spectrogram visualizer and music player in Rust

Education

University of Waterloo

Waterloo, Ontario

BACHELOR OF SOFTWARE ENGINEERING

2014 - 2019

- Three First in Class Engineering Scholarships for achieving the highest average in the program, three out of eight semesters
- Engineering and Mathematics Dean's Honours List (93.8% Cumulative Average)