Mayank Mehtani

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EDUCATION

University of California, San Diego   Dec 2017
B.S. Management Science, Minor in Computer Science

SKILLS

Programming Languages: Python, JavaScript, TypeScript , Java, C, C++, Matlab, Bash
Web Technologies and Data Stores: Django, FastAPI, Flask, HTML/CSS, ReactJS, VueJS, PostgreSQL, MySQL
Tools and Libraries: GCP, git, pytest, numpy, pandas, OpenCV, Tableau

EXPERIENCE

Envelop Risk   April 2020 - May 2022
Software Engineer, White-label Product

- Developed REST APIs to implement heavy demanded features for insurance industry professionals - including insurance document generation and insurance policy quoting & binding
- Set up alerting and monitoring of the firm's external services usage (50k+ external requests made monthly), by implementing cron-jobs on GCP cloud scheduler and then generating metrics from values taken via regular expression matching from cron-job logs
- Led application data migration with transition to Auth0 as our identification management system
- Mentored junior engineers to ensure production grade code with respect to testing, performance and readability. This resulted in the application achieving an overall test coverage of 88%
- Technologies Used: GCP, Python(FastAPI), SQLAlchemy, PostgreSQL

Software Engineer, Internal Tooling

- Developed tools for data cleaning and automating statistical calculations for insurance portfolios with up to 100,000 insurance policies for a (re)insurance data ingest platform used by 10+ data scientists and actuaries
- Built out REST APIs for insurance portfolio information and improved application performance by engineering database queries made through the django ORM, using cached properties and passing data via contexts thereby reducing the number of queries by 30%
- Developed client side features such as filtering, sorting and searching for easy and efficient data retrieval for 250+ insurance portfolios
- Technologies Used: Python(Django), JavaScript, PostgreSQL, MySQL, pandas, numpy

Yatis Telematics   Oct 2018 - Jan 2020
Software Engineer

- Implemented mobile components in react-native for a vehicle fleet tracking mobile application, making use of react props, state and lifecycle
- Improved page rending load times by 10x through fetching data from the server in parallel requests using algorithms applying asynchronous programming
- Created an evaluation tool to outline the performance of a truck image classifier, using class precision and class recall for accuracy metrics. Evaluation tool outlines where the model finds it most difficult to distinguish between specific classes
- Created a prototype for loading the detection model onto video using the OpenCV library
- Technologies Used: AWS, Python, Bash, JavaScript (react-native), HTML/CSS

Mu Sigma Inc.   June 2017 – Sep 2017
Data Analyst Internship

- Increased coverage of key investment management metrics (e.g. IRR, AUM) for Refinitv
- Created user "profiles" with Tableau visualizations of customers of a financial information software portal using geographic regions, organization types, asset class groups and segment bands to generate potential leads for upselling
- Technologies Used: Oracle SQL, Tableau