

# Mayank Mehtani

Work Authorization: EU, UK

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## EDUCATION

**University of California, San Diego**

B.S. in Management Science, Minor in Computer Science

La Jolla, USA

2017

### Relevant Coursework

**Computer Science:** Advanced Data Structures, Machine Learning I, II, III, Neural Networks

**Math/Economics:** Econometrics, Exploratory Data Analysis & Inferences, Game Theory

## SKILLS

**Programming Languages:** Python, Java, C, C++, JavaScript, TypeScript, Matlab, Bash

**Web Technologies and Data Stores:** Django, Flask, HTML/CSS, ReactJS, VueJS, jQuery, PostgreSQL, MySQL

**Tools and Libraries:** GCP, Tableau, git, pytest, numpy, pandas, OpenCV

## EXPERIENCE

### Envelop Risk

April 2020 - Present

Software Engineer

- Primarily worked on application development in Django to build out a cyber (re)insurance data ingest platform used by data scientists and actuaries. I developed tools for large scale data processing and automating statistical calculations for insurance policies
- Built out REST APIs for data consumption using the Django REST framework, improved application performance by optimizing Django queries and implemented solutions to deal with restrictive legacy data
- Developed new client side features such as filtering, sorting and searching to enable efficient data retrieval
- Set up monitoring and alerting of external services usage by running cron-jobs on GCP cloud scheduler and creating metrics from values taken from logs using regular expression matching
- Mentored junior engineers and ensured code was kept production grade. Focusing on keeping code performant, clean and adequately tested

### Yatis Telematics

Oct 2018 - Jan 2020

Software Engineer

- I implemented mobile components using react-native. I worked with react props, state and lifecycle and improved load times by 10x through applying algorithms making use of 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
- Wrote python and shell scripts to accelerate data transformation of raw data for computer vision models
- Automated company's inventory records to keep information up to date using a time triggered google script

### Sapie Inc.

Feb 2018 – July 2018

Software Engineer Intern

- Worked on developing web scrapers to scrape data of users and companies from various social media platforms using requests and selenium libraries

### Mu Sigma Inc.

June 2017 – Sep 2017

Data Analyst Internship

- 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

## PROJECTS

### AutoComplete | C++

- Predicts what word a user is typing by searching through a m-ary tree and storing the nodes in a priority queue to rank predictions

### IMDB For Books | Python, PostgreSQL, HTML5/CSS

- Designed and developed a book review web application built on the Python micro framework Flask