RAFAEL BARASH

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Education

B.S. in Computer Science 09/2016 – present

University of Minnesota Twin-Cities, Minneapolis, USA

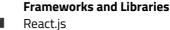
GPA: 3 49/4 0

Relevant Coursework: Algorithms & Data Structures II. Program Design and Development. Machine Architecture. Applied Linear Algebra. Multivariable Calculus. Intro to Statistics. Intro to Entrepreneurship.

Technical Skills

Languages

Python JavaScript Java C



React.js Materialize.css TensorFlow Django



Work Experience

Incoming Software Engineering Intern 05/2019 – 08/2019

Google, Seattle, USA

 Will analyze how files are changed in the Google Cloud Storage internal codebase and use machine learning models to help predict corrupted files.

Full Stack Developer 10/2017 - present

Humphrey School of Public Affairs, Minneapolis, USA

- Improved collaboration between a network of researchers by building a website hosting descriptions and contact information for open-access urban datasets and models.
- Reduced time spent searching for relevant datasets by integrating data-querying and full-text search features.
- Automated dataset submission and maintenance by connecting a submission form directly to the database and building an admin portal for maintainers.

Software Engineering Intern 06/2018 - 08/2018

Optum - UnitedHealth Group, Minneapolis, USA

- Streamlined communication between business analysts and developers by creating an in-browser Gherkin editor which automatically updates CA Agile Central for all users.
- Developed view logic in React on top of a SpringBoot backend and Docker container.
- Followed modern Agile and ATDD practices using CA Agile Central, Jenkins, and Cucumber.

Projects

Diabetes Risk Dashboard Web App 07/2018

Optum Hackathon Project

- Full-stack web app that holds patient health information and runs patient data as features through a machine learning model to predict diabetes risk in real time.
- Created machine learning model with TensorFlow DNN_Classifier.
- Frontend created in React.js, graphed risk as a function of each feature using Chart.js
- Wrote custom API to serve TensorFlow model using Python and Flask

Machine Learning March Madness 03/2018

Personal Project

- Predicted winner of march madness games using TensorFlow machine learning model.
- Achieved 0.55 log loss and 72.4% prediction accuracy with basic linear classification using seed difference, improved to 0.45 log loss and 74% with neural network model.
- Trained models with regular season and tournament data from 2003-2017.