Justin Lee

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Education

Boston University **September 2020 – Expected(May 2024)**

Bachelor of Arts in Computer Science *GPA: 3.67/4.0 Boston, MA*

- Relevant Coursework: Data Structures (Java, Python), Combinatoric Structures, Computer Systems, Probability, Analysis of Algorithms, Software Engineering, Innovation Fellowship, Geometric Algorithms, Database Systems, Distributed Systems

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, SQL, matplotlib, scikit-Learn, Go
Developer Tools: VS Code, Postman, Heroku, Jira
Frameworks: Git/GitHub, Flask, Firebase, Agile, React.js, React Native, Node, TensorFlow, NumPy, Pandas, NetworkX, Scrum, Figma

Experience

Empathie **June 2022 – September 2022**

Software Engineer Intern *San Francisco, CA*

- Spearheaded the creation of a **Wide and Deep learning model** by utilizing **TensorFlow** for the retrieval stage of the algorithm, resulting in an accuracy of **93%**.
- Constructed an input pipeline utilizing the TensorFlow library and **Pandas** DataFrame to preprocess **10** numerical and categorical features.
- Engineered and deployed a **REST API** to make the model callable from **Flutter** utilizing **Flask** as a back-end and the cloud deploying services of **Heroku** utilized by **1,000+** mobile application users.

Boston University **June 2022 – December 2022**

Research Assistant (Data Mining) *Boston, MA*

- Improved the efficiency of an algorithm by **75%** by developing a new weighted network propagation algorithm in **Python** that takes 0.48 seconds to analyze a directed network graph of over **36,500** nodes with the **NetworkX** python package.
- Utilized **Twitter API** to scrape and preprocess **100,000+** tweets from Twitter on **5** different political figures and used **Google NLP** in order to perform sentiment analysis on the processed tweets.

Meta (Facebook) **August 2022 – November 2022**

Above and Beyond CS Fellow *Remote*

- Selected to participate in Meta's 9-week technical interview prep fellowship and work to master key data structures, algorithmic thinking, and best practices for interviews.

Projects

Stock Check! | *React.js, Node, Python, Pandas, TensorFlow, matplotLib, scikit-learn* **September – December 2022**

- Accessed **Yahoo Finance API** to retrieve data stored as a pandas data frame. Pre-processed and fed sequential data into TensorFlow's LSTM model (Recurrent Neural Network) in order to predict stock prices based on historical data.
- Used **Matplotlib** to dynamically display the graph comparing the stock price predicted by the model and the actual stock price. Built front-end in **React.js** to display the chosen company's resulting graph and other financial statistics.

Pokiweather | *React.js, Node, HTML, CSS, Firebase, Django* **September – December 2022**

- Developed a web app integrating a weather feature with a random Pokemon generator, providing users with both real-time weather data and the excitement of collecting Pokemon in one place.
- Created and managed a user database within the web app, allowing users to securely log in and store their personal information such as name, email, password, as well as their collection of Pokemon in a "Pokedex" feature.

Leadership / Extracurricular

TechTogether **June 2022 – Present**

Sponsorship Director *Boston, MA*

- Supervise a team of 5 sponsorship members, conduct outreach to over **150** companies, and organize video calls to negotiate partnerships with supporting companies such as Slalom Build, State Street, Pegasystems, Microsoft, and Pico.
- Raised over **$45,000+** total in order to help fund participants' donations to other non-profits and cover hackathons' event costs.