Frank Pacini

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Education

Boston University *Boston, MA*

B.A. Computer Science & B.A. Statistics *Sept. 2019 - May 2023*

Selected Coursework: Deep Learning, Machine Learning, Data Science, Algorithms, Probability, Statistical Inference, Operating Systems, Cybersecurity, Stochastic Processes

GPA: **3.97/4.00 overall, 4.00 in majors**

Skills

Languages	Python, Javascript, Java, Go, SQL, C, Dart, OCaml, Matlab
Frameworks & Libraries	PyTorch, TensorFlow, NumPy, Scikit-learn, React.js, Telegraf, Vue.js
Tools & Systems	MongoDB, InfluxDB, Docker, Google Cloud, CI/CD, Flutter, Linux, Git

Work Experience

BU Spark!

Data Science Intern *Feb. 2022 - Present*

- Tasked with developing a web scraper for masscourts.org and data pipeline in Python and SQL in order to provide a complete dataset of court cases to Massachusetts researchers and policy makers.

BU LISP Lab

Research Assistant *Dec. 2021 - Present*

- Trained graph embeddings and ran experiments in PyTorch to improve distance approximations for use in map navigation. Submitting results to the KDD research conference.

Dell Technologies

Software Engineer Intern *May. 2021 - Aug. 2021*

- Designed Telegraf plugins in Go for automated data curation and processing, as well as serving ML models. Created extensive unit tests and pipeline infrastructure for CI/CD.
- Curated datasets and built neural nets in TensorFlow to predict commit activity on internal repos.
- Created an end-to-end time series data pipeline deployed in Docker containers. Wrote SQL-like queries to pull and process data from InfluxDB for automated visualization.
- Updated and hosted a new package to support execution of Tensorflow models / graphs in Go.

Hack4Impact at BU

Project Lead *Sept. 2020 - June. 2021*

- Led a team of 10 student developers in building a content delivery site for EatWell, a meal kit NGO.
- Utilized React.js with Material-ui and Firebase to support delivery of recipes and video tutorials, user program management, code-based authentication and various administrative features.

Selected Projects

LyricRec

- Designed a model using Transformers (NLP) to recommend similar songs based on lyrical themes.

RateYourMusic Reverse

- Trained a TensorFlow model to rank albums, achieving 98% accuracy with data from the RYM site.

Awards & Achievements

- Dell NA Intern Hackathon - 2nd place
- BU Upsilon Pi Epsilon Honor Society Inductee