

Frank Pacini

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EDUCATION

Boston University

Expected May 2023

B.A. in Computer Science & Statistics

GPA: 3.97 Overall, 4.00 Major

- **Selected Coursework:** Algorithms, Deep Learning, Data Science, Machine Learning, Big Data (expected), Operating Systems, NLP (expected), Programming Languages, Cybersecurity, Linear Models, Probability

SKILLS

Languages: Python, Java, SQL, Go, Javascript, C, Bash, Dart, OCaml, Matlab

Frameworks & Libraries: PyTorch, TensorFlow, NumPy, Scikit-learn, React.js, Telegraf, Vue.js

Tools & Systems: Azure, Google Cloud, Docker, MySQL, MongoDB, CI/CD, Linux, Git

EXPERIENCE

Dell Technologies

June - August 2022

Software Engineer Intern

Hopkinton, MA

- Developed extension for the Oracle Enterprise Manager database platform in Java and Javascript to collect and display hardware-level statistics and alerts, enabling database admins to effectively troubleshoot their systems.

BU Spark! & Civera Software

February 2022 - May 2022

Software Developer Intern

Boston, MA

- Implemented a web scraper for masscourts.org and data pipeline with Python, MySQL and AWS to provide an easily accessible, comprehensive dataset of Massachusetts court cases to researchers and policy makers.

Dell Technologies

May 2021 - August 2021

Software Engineer Intern

Remote

- Developed plugins in Go to support data processing and execution of any Tensorflow ML model within the Telegraf data collection infrastructure, significantly reducing evaluation time on the collected metrics.
- Built neural networks in Tensorflow to predict GitHub repository activity, enabling more efficient scheduling of IT maintenance periods. Curated and trained on a dataset of 1,000,000+ internal commits.
- Deployed an end-to-end time series data pipeline and visualization dashboard with Docker and SQL to enable monitoring of various hardware metrics on Dell systems.

Hack4Impact at BU

September 2020 - June 2021

Project Lead & Software Developer

Remote

- Oversaw a team of 10 student developers to create a content delivery site using React.js with Material-ui and Firebase for local non-profit EatWell Meal Kits.
- Engineered recipe and video tutorial pages, user program management, code-based authentication and various administrative features.

PROJECTS

Genius.com Song Recommendation | *PyTorch, Django, React.js, Azure*

- Developed a full-stack web app in React and Django with the Genius API where users can discover similar songs.
- Trained a BERT model to recommend lyrically-related tracks and supported inference with Azure Functions.

ANEDA | *PyTorch, Flask, Leaflet.js*

- Trained an embedding-based graph representation model to predict optimal routes within large cities using network data from OpenStreetMap. Developed routing demo in Leaflet.js and Flask for the Boston-area street network.

QR Attendance | *Vue.js, Flask, MongoDB*

- Created a QR code based authentication app to easily log and monitor member meeting attendance, improving efficiency of chapter proceedings by 40%.

Foster Friends | *Flutter, Dart, Firebase*

- Built account forms, search, and interface to Firebase for a mobile app that connects adopters to animal shelters.

ACHIEVEMENTS

- Microsoft Azure Fundamentals Certification - Issued July 2022
- Dell North America Intern Hackathon - 2nd place