

# Frank Pacini

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## EDUCATION

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### 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

## SKILLS

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**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

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### Dell Technologies

June - August 2022

*Software Engineer Intern*

*Hopkinton, MA*

- Developed Java extension for the Oracle Enterprise Manager database platform 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 in creating 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

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### 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 find 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

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