

Frank Pacini

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EDUCATION

Boston University

B.A. in Computer Science & Statistics

Sept 2019 - May 2023

GPA: 3.98 Overall, 4.00 Major

SKILLS

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

Frameworks & Libraries: PyTorch, React.js, TensorFlow, Spring Boot, Apache Tomcat, Django, Telegraf, Vue.js

Tools & Systems: Oracle Cloud, Azure, GCP, AWS, Docker, CI/CD, Oracle DB, MySQL, MongoDB, Linux, Git

EXPERIENCE

Oracle

Senior Software Engineer

OCI Software Engineer

July 2023 - Present

Burlington, MA

Redwood City, CA

- Served as **Technical Lead** driving development of a Public Control Plane Service in **Java** and **React.js** UI from initial design stages through the full SDLC to multi-realm service availability and deployment to the OCI Developer Portal. Followed best practices around use of design patterns, unit, integration and service uptime testing, and deployment automation frameworks. Represented the project in design and security reviews with OCI architects and numerous integrations with other OCI services.
- Developed **Python** framework to automate resource deployment and integration process required to deliver Oracle's cloud resale offering to large enterprise customers, reducing our team's delivery timeline from **10 days** to **1 day**.
- Architected pipeline framework to orchestrate large-scale upgrade of existing customer-specific regions to a more specialized cloud offering. Serving in **project management** capacity by communicating with and coordinating deliverables from **30 service teams**.
- Created a **custom extension** to the OCI AuthZ SDK to improve maintainability of our organization's many service integrations across the OCI Platform.
- Mentored** two new-grad Software Engineers and a summer intern, teaching them OCI concepts, SDLC processes, development and debugging skills, and guiding them during project onboarding.

Dell Technologies

Software Engineer Intern

Summer 2021 & Summer 2022

Hopkinton, MA

- Developed extension for the Oracle Enterprise Manager database platform in **Java** and **JavaScript**.
- Designed plugins in **Go** to support data processing and execution of TensorFlow ML models using the Telegraf agent, 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 Grafana visualization dashboard using Docker and SQL.

Hack4Impact at BU

Project Lead & Software Developer

September 2020 - June 2021

Remote

- Led a team of **10** student developers to create a content delivery site for a local non-profit using **React** and **GCP**.

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 an **NLP** model to recommend lyrically-related tracks and supported inference with Azure Functions.

ANEDA | *PyTorch, Flask, Leaflet.js*

- Trained an embedding-based graph **ML** 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.

ACHIEVEMENTS

- Oracle Employee Recognition** (Diamond) Award - April 2025
- Dell North America Intern Hackathon - 2nd place