

William De Rocco

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EDUCATION

Boston University

Boston, MA

B.A. in Computer Science (CS), Minor in Economics, GPA 3.85/4.00

Expected May 2025

- **Selected Coursework:** Data Structures & Algorithms (Java), Empirical Economics (STATA), Intro to Machine Learning & Artificial Intelligence (Python, Tensorflow), Computer Systems (Unix, Bash, Assembly, C), Software Engineering

SKILLS

Languages: Python, JavaScript, TypeScript, YAML, Bash/Unix, Java, Kotlin, HTML, CSS, Go, SQL, C, Assembly, STATA

Tools: Git, Figma, Docker, Postman, AWS, Google Cloud Platform, Heroku, Netlify, Supabase, Google Suite, Android

Other: React.js, Node.js, PostgreSQL, Next.js, Dotnet, Spring, Pandas, TensorFlow, NumPy, MongoDB, Firebase, Django

WORK EXPERIENCE

Boston University – Department of Computer Science

Boston, MA

Undergraduate Teaching Assistant

Jan 2022 – Present

- Tutor 450+ students on algorithms, data analytics, and web development using **Python, HTML, Pandas, and Django**.
- Configure **Gradescope unittest** software to efficiently review, test, and grade **1200+** code samples per semester, contributing to **>30%** of instructor feedback and directly enhancing students' coding skills and practices.

Rhapsody Health

Boston, MA

Full Stack Software Engineering Intern

May 2024 – Aug 2024

- Collaborated with an internationally distributed team using **Jira** and **FigJam** for **project planning** and **design** sprints.
- Established a **Docker** container-driven workflow, standardizing local development, simplifying **Bitbucket** CI/CD pipeline, and improving usability of existing **Kubernetes** logging.
- Developed a debounced keyword-based graph search, improving UX by reducing input lag during component filtering.

PROJECTS

CodeHive 📄 | Innovator, Technical Teammate

December 2024

- Implemented core functionality including markdown/contextual questions, in-app notifications, and authentication.
- Led DevOps implementation by configuring **GitHub** branch protection, validating pull requests using Docker build workflow, and implementing **CI/CD** with **GitHub Actions** and Google Cloud Platform **Cloud Run** and **Artifact Registry**.
- Established **Django** and **Supabase ORM** infrastructure for both local development and production environments.
- Championed the use of **Shadcn** component library to ensure consistent UI and accelerate development across the team.

BU GCal Sync 📄 | Finalist - Best Use of Google Cloud, BostonHacks

Nov 2023

- Programmed chrome extension using **JavaScript, HTML, CSS**, and **Google APIs** enabling users to seamlessly authenticate with **OAuth 2.0** and export their class schedule to **Google Calendar** with the click of a button.
- Streamlined user productivity and security by directing them to log in via **BU StudentLink** to directly parse their courses.

Diabetes Risk Model for Native Women 📄 | 1st Place, BostonHacks

Apr 2022

- Developed diabetes mellitus risk calculator using **RandomForestClassifier** and **GridSearchCV** hyper-tuning library, and trained on **Kaggle's** Pima Indians Diabetes Database to reach an **R²** of **0.74**.
- Designed interactive web application utilizing **Streamlit** framework to collect user data, and seamlessly integrated our ML model with **Pickle**, enabling Native American women to readily self-diagnose their diabetic risk.

LEADERSHIP

Phi Chi Theta - Professional Business Fraternity

Boston, MA

VP of Technology | WhyPhi 📄

Jan 2024 – May 2024

- Managed team of **12** members to plan and execute a **40+** person community-wide **HackerRank** coding competition.
- Developed an application and attendance system (WhyPhi) serving **200+** users, and cutting costs by **\$276** per year.
- Leveraged **AWS Chalice's** layered architecture to fetch, parse, and analyze data, supporting diversity promotion.

VP of Fundraising

Jan 2023 – May 2023

- Led a team of **10** members across three sub-teams (Digital Fundraising, In-person Fundraising, and Philanthropy) to successfully coordinate and execute **seven** events, raising over **\$1.2k** for the fraternity.
- Demonstrated and enhanced strong organizational leadership skills by effectively managing each initiative, collaborating with various teams of PCT and **external** organizations, and hosted weekly sprints to achieve our semesterly goals.