Caleb Panoch

Boca Raton, FL | calebpanoch@yahoo.com | (561) 419-3332 | www.linkedin.com/in/calebpanoch | GitHub: github.com/calebpanoch

EDUCATION

Master of Science in Computer Science *(December 2024) Florida Atlantic University (Boca Raton, FL) GPA: 3.9/4.0*
Bachelor of Science in Computer Science *(December 2023) Florida Atlantic University Boca Raton, FL) GPA: 3.95/4.0*

RELEVANT COURSEWORK

Introduction to Programming, Foundations of Computer Science, Introduction to Internet Computing, Data Structures, Microprocessor Systems, Computer Operating Systems, Theory of Computation, Cloud Computing (CI/CD).

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, SQL, LUA
Frameworks / Tools: TensorFlow, NumPy, Google Cloud Platform, Git, Back4App, HTML5, CSS, React, Node.js
Concepts: Machine Learning, AI-driven Systems, Scalable Web Development, Cloud Deployment, Data Analysis, Automation

WORK EXPERIENCE

Technology & Operations Support Specialist – *Gary Panoch Funeral Home & Cremations*
Dec 2025 - Present

- Rebuilding and maintaining the company website using modern web tooling (e.g., Vite, React).
- Managing and optimizing Google Ads campaigns to improve visibility and lead generation.
- Monitoring performance metrics and preparing basic reports for management.
- Supporting general office operations while learning internal administrative processes.

IT Support Technician - *Gary Panoch Funeral Home & Cremations*
Aug 2018 – Dec 2025

- Set up and support livestream and digital media systems for services, enabling remote access for families.
- Delivered full-spectrum IT support across computers, networking, printers, and software platforms.
- Improved operational efficiency by troubleshooting issues and implementing optimized workflows.

Teaching Assistant (Theory of Computation) - *Florida Atlantic University*
Jan 2024 – May 2024

- Guided students in building Turing machines, automata, and regular expressions, reinforcing computational theory foundations.
- Collaborated with faculty to evaluate coursework and ensure comprehension of complex algorithms and logic-based problem solving.

Machine Learning Internship Research - *Florida Atlantic University, Dr. Zhen Ni's Lab*
May 2023 – August 2023

- Developed predictive models to forecast smart building energy consumption using supervised learning and regression techniques.
- Implemented and tuned algorithms in Python (NumPy, Pandas, scikit-learn) to improve model accuracy and scalability.
- Contributed to the design of AI-driven solutions leveraging real-time data insights for optimized energy management.

Math Tutor – *Florida Atlantic University Math Learning Center*
Jan 2022 – May 2022

- Provided individualized instruction and mentoring in Precalculus, Trigonometry, and Algebra, strengthening analytical and problem-solving abilities.

PROJECTS

Find Fish: findfish.dev

- Built a full-stack fishing spot discovery app using React with an interactive map interface (Google Maps style plugin), backed by a Node.js/Express API, enabling users to upload, browse, and tag fishing locations.

- Implemented cloud-native architecture on Google Cloud Platform, including Cloud Storage buckets for image handling and GCP hosting for the frontend/backend, optimizing performance, scalability, and deployment workflows.

Personal Website: calebpanoch.com

- Developed a fast, lightweight personal portfolio website using Vite and React, showcasing projects, experience, and technical skills with optimized build performance and minimal load times.
- Implemented modular, maintainable frontend architecture with modern JavaScript tooling, custom components, and responsive UI design to ensure seamless viewing across devices.

Autonomous Receptionist Robot Dog:

- Engineered a Python-based facial recognition system integrated into a robotic platform that retrieves and presents appointment data from a database.
- Combined computer vision with database automation to create an interactive, AI powered experience.

FAU Social Board: github.com/calebpanoch/cen4010_spr23_g20

- Developed a full-stack social web app enabling user registration, login, and post sharing using HTML, CSS, and JavaScript.
- Implemented scalable frontend logic and optimized data flow to enhance user engagement and responsiveness.

JPG Image Sharing Website Using CI/CD:

- Built and deployed a cloud-based image sharing platform using Google Cloud services and CI/CD pipelines.
- Utilized Google Cloud Storage for image management and Datastore for metadata persistence, with secure authentication through Back4App.

Multi-Party Computation Intersection:

- Developed a GUI application that uses cryptographic protocols to compare datasets across distributed instances without exposing private data.
- Demonstrated secure computation principles in multi-user environments.

ADDITIONAL EXPERIENCE

- Member of National Society of Collegiate Scholars