Caleb Panoch

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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

Technical Support Specialist - *Gary Panoch Funeral Home & Cremations*

Boca Raton, FL | August 2018 - Present

- Designed and maintained digital systems for live-streaming services, improving remote client engagement during the pandemic.
- Provided end-to-end technical support for hardware, software, and network devices, improving system uptime and user satisfaction.
- Applied problem-solving and system optimization principles to improve workflow efficiency.

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

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
- Passionate about building AI-driven, scalable, and data-intensive systems that enhance user experience and business performance.
- Committed to continuous learning, rapid prototyping, and collaborative innovation in software engineering teams.