Isaya Danice

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EDUCATION

Florida Institute of Technology Melbourne, Fl

Bachelor of Science in Computer Science

WORK EXPERIENCE

Satcom Melbourne, Fl

Software Engineer *May 2024 - Aug 2025*

- Contributed to the development and optimization of secure communication systems using .NET principles, REST APIs, and OOP-based design.
- Built internal tooling using C#, Python, and JavaScript, improving real-time data processing reliability by 15%.
- Participated in hardening backend systems for aviation APIs, ensuring stable and scalable communication services.
- Supported full-stack debugging and troubleshooting, resolving software defects and improving system performance.
- Collaborated with cross-functional teams in an Agile environment to gather requirements and deliver features aligned with business goals.

Zontal Provo, Utah

Data Engineering Intern *May 2023 - Aug 2023*

- Worked on microservices-based architectures, contributing scripts and modules that automated metadata extraction and integrity checks.
- Integrated anomaly detection logic into data processing pipelines, reducing error-prone cases by 28%.
- Supported backend services and API-driven workflows, contributing to system reliability and data accuracy.
- Documented development processes to support onboarding and improve transparency across the engineering team.

Florida Institute of Technology **Melbourne, Fl**

Undergraduate Research Assistant *Aug 2022 - Dec 2022*

- Supported model preprocessing and evaluation for an AI-driven anomaly detection system.
- Assisted with reproducibility testing across different hardware environments

PROJECT EXPERIENCE

Full-Stack Malware Analysis Tool (BERT + .NET API)

Indepent Project

- Developed a malware classification pipeline using BERT-based embeddings with a backend served via a .NET API, achieving 91% accuracy on a Drebin-style dataset.
- Integrated static analysis tools (MobSF) and built data processing logic using OOP design patterns.

Local LLM Digital Forensics Triage System

Independent Project

- Developed a secure, offline document-triage tool using Flask (backend) and React (frontend) integrated with a local small language model for automated summarization, keyword extraction, and tagging.
- Designed workflows to preserve forensic data confidentiality and streamline case review processes.
- Reduced manual document analysis time by 30% while improving tagging consistency across investigators.

Human–AI Shared Control System (CARLA Simulation)

Senior Design Project

- Built a full-stack shared control framework using Python, ROS, and the CARLA simulator to model safe transitions between AI and human driver control.
- Implemented ML-based uncertainty detection logic to trigger intuitive handoff events during complex driving scenarios.
- Created a real-time dashboard UI displaying alerts, telemetry, and confidence signals to enhance driver situational awareness.

- Improved driver response time by 22% in uncertainty-driven scenarios within CARLA simulation tests.

SKILLS

Languages: C#, Python, Java, C++, Bash

Frameworks/Tools: .NET, ASP.NET, REST APIs, Entity Framework, React, CSS, JavaScript, Git

Databases: SQL, MySQL, MongoDB

Cloud: AWS (EC2, CloudWatch, RDS), Docker, Linux, Docker, Kubernetes

AI/ML: TensorFlow, PyTorch, Scikit-learn, Transformers

Other: OOP, Agile, Microservices, OpenCV, MobSF