DANIEL I. STABILE

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EDUCATION

M.S. COMPUTER SCIENCE
Cornell University, College of Engineering
Ithaca, NY • Class of 2023
GEM Fellow

B.S. COMPUTER SCIENCE
Cornell University, College of Engineering
Ithaca, NY • Class of 2021
Magna Cum Laude • Ryan Scholar

EXPERIENCE

GEM Fellow Intern • MIT Lincoln Laboratory • Summer 2021
- Developed synthetic track generator of flight activities to be used for validation of unsupervised machine learning classifiers detecting anomalous tracks
- Discussed project directly with project sponsors and presented final results to laboratory division

Software Engineer Intern • Maculogix • Summer 2020
- Eliminated production bottleneck by reducing final calibration process from 2.25 hours to 35 min
- Worked in C# implementing advanced interpolation search algorithms and automating processes with OpenCV using the Emgu wrapper and FLIR Systems Spinnaker SDK
- Wrote work instructions and ISO 9000 validation/verification procedures for software I developed

Founding Member & Software Developer • Vita Innovations • March 2020 - January 2022
- Built desktop application/smart mask interface to display body temperature, heart rate, blood oxygen levels, and respiratory rate for healthcare professionals
- Created and maintained company website and brand with HTML, CSS, Bootstrap, and Illustrator

Student Employee - Cornell University
- Graduate Teaching Assistant   CS 4620 - Computer Graphics   Jan 2021 - Dec 2021
- Graduate Teaching Assistant   CS 4670 - Computer Vision   Jan 2022 - May 2022
- Graduate Teaching Assistant   CS 4620 - Computer Graphics   Jan 2021 - Dec 2021
- Grader   ECE 5470 - Computer Vision   Oct 2020 - Dec 2020
- Software Lead   Cornell University Biomedical Device   Feb 2020 - June 2020
- Resident Advisor   Cascadilla/Sheldon Dormitories   Jan 2019 - Aug 2021

PROJECTS

oCaml DBMS • CS 3110 Functional Programming • Fall 2019
- Developed data base management system in oCaml with MySql standards as class final project
- Led creation of REPL code, parsing of user queries, and displaying of tables to terminal
- Collaborated on code to compute parsed queries and output final tables

RISCV Processor • CS 3410 Computer System Organization and Programming • Spring 2018
- Implemented a fully pipelined RISCV Processor using Logisim to draw and simulate circuits
- Referred to RISCV Handbook to ensure that all instructions were implemented correctly

Fútbol Formation Analysis • Engineering Math Summer Institute • Summer 2018
- Designed soccer simulator in Python, analyzing goal-scoring performance among formations
- Compiled data and presented findings at Cornell University research symposium

SKILLS
- Python, NumPy, TensorFlow, PyTorch, SciKit Learn
- oCaml, Java, Matlab, C#, HTML & CSS, Bootstrap, Jupyter, Git, Linux, Vim, VS Code
- InDesign, Illustrator, Photoshop, Premiere Pro

COURSEWORK
- Robot Manipulation, Foundations of Robotics
- Machine Learning for Intelligent Systems, Machine Learning with Biomedical Data, Reinforcement Learning
- Intro to Computer Vision (CS), Computer Vision (CS PhD Level), Computer Vision (ECE)
- Data Structures & Functional Programming (oCaml), Computer System Organization and Programming (C), Operating Systems, Computer Graphics I (JS/Python), Intro Analysis of Algorithms (Java), Software Testing (Java), Foundations of Robotics (Python), Computer Analysis of Biomedical Images (Python), Discrete Structures