

Profile

I am a Computer Science Engineering major graduating June 2021 from the University of California, Santa Barbara. I am most interested in distributed systems, computer security, and robotics, and I am looking to apply these skills to a fast-paced development environment.

Experience

SOFTWARE ENGINEERING INTERN

MICROSOFT CORPORATION

SUMMER 2020

- Analyzed query data advertising efficiency based on prior user behavior to determine profit potential.
- Developed a live cache to track query data and speed up logging pipeline by over 100%. (C#)
- Served ads using prior behavior to increase engagement, decrease computation without losing clicks.
- Published and presented initial analysis, design documents, and results in internal reports for future use.

AI SYSTEMS ENGINEERING INTERN

INTEL CORPORATION

SUMMER 2019

- Built middleware to integrate Crest Profiler with VTune, developed counters to search for optimizations.
- Wrote performance sensitive C++ code to generate profiles for the Spring Crest profiler. (C++)
- Built support servers Flask + Minio. Ansible + Minikube scripts to speed up builds by up to 12%. (Py3)
- Identify optimizations for models to improve performance by 7% on the Intel Spring Crest training chip.

COASTAL OCEANOGRAPHY AND AUTONOMOUS SYSTEMS LABORATORY (COAST LAB)

UNDERGRADUATE RESEARCHER

2018-2019

- Created module using embedded systems on the ESP32 allowing for 3 week long battery life. (C)
- Interfaced with sensors to take burst readings of current and water temperature within a kelp forest. (C)
- Designed watertight, buoyant casing to house microcontroller underwater without impacting readings.
- Created a numerical model to stitch together readings from multiple modules to derive current. (Py3)

Education

University of California, Santa Barbara – BS Computer Science: GPA 3.7

- Dean's Honors 8 out of 9 quarters + 4 Years Engineering Honors

COURSEWORK:

Data Structures & Algorithms	Parallel Programming	Computer Networks	Distributed Systems
Embedded Systems	Machine Learning	Discrete Math	Linear Algebra
Computer Security	Database Systems	Computer Architecture	Operating Systems

Skills

LANGUAGES (ORDERED BY PROFICIENCY): C++ · Python3 · Java · C# · C · ReactJS · CUDA

TOOLS: Docker · Kubernetes · Ansible · Linux · Git · ROS · Jetson · OpenCV · NoSQL

