

## Education

**MS Computer Engineering**  
**GPA: 4.00**  
**Purdue University,**  
**December 2022**

**BS Computer Engineering**  
**GPA: 3.90**  
**Purdue University,**  
**December 2021**

## Skills

**Languages:** C/C++, Java, Python, Golang, JavaScript, SystemVerilog, Swift, Ruby

**Embedded Systems:** I2C, DMA, SPI, UART, GPIO  
NVIDIA-CUDA, ESP32

**Hardware:** ASIC Design, PCB-Design, ARM v6-M, RTL, FPGA

**Databases:** SQL, OracleDB, MongoDB

**Cloud/Containerization:** Azure, AWS-EC2, Docker, Kubernetes, Jenkins

## Courses

- **Applied Algorithms** (ECE 595AA)
- **Programming Parallel Machines** (ECE 563)
- **Applied Quantum Computing** (ECE 595)
- **Operating Systems** (ECE 469)
- **Embedded Systems** (ECE 362)

## Professional Experience

- **L3Harris – Melbourne, FL** **05/2021 – 08/2021**  
**Embedded SWE Intern – Space and Airborne Systems**
  - Developed embedded solutions on an **ARM** controller for upcoming product releases, focusing on feature optimization.
  - Integrated custom **FPGA hardware** with embedded controller.
  - In-depth details are confidential as per US Title-18.
- **AT&T – Seattle, WA** **05/2020 – 08/2020**  
**Software Engineering Intern – AMP ML Team**
  - Worked on AMP, metadata search engine for applications, reports, and data. Using **predictive analysis** and **machine learning** models to classify users under personas to improve “relevancy” for search results.
  - Developed an **NLP model** to identify abstract “topics” from searches.
  - Improved search result relevance and user classification by **25%**
- **CME Group – Chicago, IL** **05/2019 – 08/2019**  
**Software Engineering Intern – Trade Execution Systems**
  - Worked with Order Entry division of the **GLOBEX** platform. Developed and implemented **fault tolerance** across Market Segment Gateway (MSGW) instances with FT daemons.
  - Implemented a **dynamic state sync** across all connected **distributed systems**, client systems, **order entry systems**, and **matching engine**. Improved team’s SDLC by over **30%** with FT implementation.
  - 2019 CME CodeUp - **3<sup>rd</sup> Place** – Developed a profitable **trading algorithm** on CME derivative markets.
- **Purdue University** **01/2019 – Present**  
**ECE Teaching Assistant**
  - ECE 469 **GTA** – Operating Systems, ECE 368 – Data Structures & Algorithms
  - ECE 264 – Advanced C Programming, CS 159 – C Programming

## Research Experience

- **Dark Matter Big Data Research** **08/2018 – 02/2019**  
**Purdue University**
  - Using data analytics and developing algorithms to parse petabytes of sensor data collected by the XENON 100 sensor searching for Dark Matter trends.

## Leadership Experience

- **Purdue BGR – Supervisor** **08/2019 – Present**
  - Fostered an inclusive work environment centered around interpersonal skills with an emphasis on personal development.
  - Managed and organized the direction of orientation leaders to support the transition of 200 students.
- **Purdue BGR – Team Leader**
  - Demonstrated effective leadership and communication leading a group of 15 incoming college students around a large and complex orientation program.

## Projects

- **MapReduce**
  - Developed a full-scale map-reduce implementation designed to run across several multi-core machines using OpenMP and MPI.
- **Blockchain Credit Card Implementation**
  - Golang application to mimic card transactions through POC blockchain implementation.