

## 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,  
Swift, Ruby

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

**Hardware:** ASIC Design,  
SystemVerilog, 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**
- **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 Undergraduate Teaching Assistant**
  - **ECE 469 – Operating Systems**, ECE 368 – Data Structures and Algorithms
  - ECE 264 – Advanced C Programming, CS 159 – Programming for Engineers

## 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.
- **DNA + Metagenomics Research** **09/2016 – 06/2018**  
**Rutgers University**
  - Utilized metagenomics, next generation sequencing (NGS) to isolate bacterial DNA genomes. Reconstructed DNA genomes for **antibiotics and bacteria discovery**. Published DNA sequences to **NCBI.gov**.

## 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

- **Blockchain Credit Card Implementation**
  - Golang application to mimic card transactions through POC blockchain implementation.
- **IOS App – Substitute Teacher**
  - IOS app (Swift + Firebase) for Electronic Management of substitute teachers.