

## EDUCATION

- Aug 2019 – May 2021 **Duke University, Pratt School of Engineering,**  
*Electrical & Computer Engineering, Master of Science.*  
Major GPA: 3.9/4.0. ECE Merit Scholarship
- 2015 – 2019 **Southeast University,**  
*Electronic and Information Engineering, Bachelor of Engineering.*  
Major GPA: 3.96/4.0 (Top 1). Magna Cum Laude & First-Prize Scholarship (Top 2%)

## SKILLS

JavaScript, Java, Python, C/C++  
HTML/CSS, Django, Node.js, React.js, Docker, JavaFX, SQL, MongoDB, CI/CD, Emacs

## INTERNSHIP

- May – Aug 2020 **Software Engineer Intern, EzTRAIN.**
  - Developed a web application to organize, prioritize and track squadron training at Seymour Johnson AFB.
  - Devised and implemented back-end logic to parse uploaded spreadsheets and schedule training events.
  - Designed an intuitive and interactive dashboard to show details of trainees, tasks and events.
- Oct 2018 **Research Intern, CHINESE ACADEMY OF SCIENCES.**
  - Built a Modbus-based smart home control system, using MFC and C++.
  - Accomplished the remote control and monitoring of LED lights, electric fans and servo drives.
- Jun – Aug 2018 **Research & Development Intern, SIEMENS.**
  - Designed and built a lab inventory management system, using VBA.
  - Streamlined procedures of register, lookup, check-out and check-in lab inventory.

## SOFTWARE PROJECTS

- Jul - Aug 2020 **Feedback Collection App (JavaScript, React, Redux, Express, Node, MongoDB),** side project.
  - Developed a full-stack application to send mass emails to a big list of users to collect customer feedback.
  - Utilized Passport and Google OAuth for authentication, Redux Form for user inputs, and Stripe for billing.
- Apr – May 2020 **Mini UPS System (Python, Django, PostgreSQL, Docker, Protocol-Buffers),** team work.
  - Constructed a full-stack UPS website in Django framework, paired with world simulator and mini Amazon.
  - Designed APIs and protocol buffers to coordinate communications between mini UPS and Amazon systems.
  - Ensured idempotent operations and "Exactly Once" rule by keeping track of ACKs.
  - Increased reliability by implementing retry mechanism.
- Mar 2020 **HTTP Caching Proxy Server (C++, TCP Sockets, Concurrency),** team work.
  - Realized GET, POST, and CONNECT request handling, using daemon process and multi-threading.
  - Improved performance with response caching based on the rules of expiration time and revalidation in RFC7234.
- Feb – May 2020 **Risk Network Game (Java, JavaFX, Concurrency, JSON, CI/CD),** team work.
  - Built a multi-player desktop game, using Java for back-end, JavaFX and MVC design pattern for UI, TCP Sockets and JSON for communication between server and clients.
  - Implemented move/attack/upgrade/alliance orders, and an online chatroom
- Feb 2020 **Mini Google Protocol Buffer (Java, JSON, Gradle),** individual project.
  - Realized pulling class names and fields information from input JSON files, generating Java source code (serialization and deserialization methods included). Improved with cycle handling in object reference graph.
- Nov 2019 **Mini Linux Command Shell (C++, Multi-process, OOD, Valgrind),** individual project.
  - Developed a command shell that can change directory, set and export environment variables, redirect and pipe.
  - Refined with argument parsing of escape and quotation mark, and searching PATH variable for commands.