

TECHNICAL SKILLS

Programming/Coding: Python, C/C++, Java, Git, SQL, HTML, CSS, JavaScript, Node.js, Matlab, VHDL, Bash, Assembly

Software: Linux, AWS, VS Code, Eclipse, Jira, Slack, Android, VirtualBox, PSpice, Cadence, CAD, Simulink, Atmel Studio

Hardware: Microcontrollers, FPGA, PC building and repairing, electronic circuit designing/building/analyzing/programming

WORK EXPERIENCE

Self-Employed – Remote

Jun 2020 — Present

Developer and System Analyst

- Hired to work on a scholarship matching website to help incoming college students fund their education.
- Responsible for front and back-end web development (working closely with AWS, Linux, SSH, and SQL/NoSQL databases), code review, research, development of new and existing features, data analysis, and production of written reports with comprehensive system diagrams.

Doosan Fuel Cell America, Inc. – South Windsor, CT

Jun 2019 — Aug 2019

Software Engineer Intern

- Developed database solutions for a cloud-based remote monitoring system (RMS) for a fleet of hundreds of fuel cell powerplants located in the US, UK, and Korea. RMS was later deployed for company use.
- Automated ETL processes for data collection, aggregation, categorization, and visualization (using Python, C, MySQL, AWS, and Excel) to help the software team identify, prioritize, track, and resolve issues much quicker.
- Managed and fixed software on powerplant computers through remote desktop sessions.

UConn School of Engineering – Storrs, CT

Jan 2017 — May 2017

Information Technology Specialist

- Troubleshooted computer/network problems and diagnosed issues with printers and other technology.
- Maintained high productivity by helping students, faculty, and staff with relevant tech-related problems.
- Knowledge and experience in:
 - imaging, ghosting, installing, and licensing various types of software on many different machines.
 - repairing and/or replacing faulty pieces of hardware to save on computer costs.

YouTube – Remote

Aug 2011 — Present

Partner

- Manage a channel and create content with 20 million views, leveraging data analytics, SEO, and digital marketing.

RELEVANT PROJECTS

Senior Design (Sponsored by Carrier) – Storrs, CT

Aug 2019 — May 2020

First Place Winner for ECE Senior Design 2020 at UConn, Team Leader

- Developed a testing methodology for IoT systems relevant to Carrier's new network-controlled HVAC products.
- Led the design and implementation of a sample IoT system, toolchain selection, and assigning tasks to group members.
- Tech stack: Python scripting/automation, cloud API, Android app development, Arduino, Matlab, Apache JMeter.

Hospital Information Data Utility – Storrs, CT

Project for Software Engineering

- Designed, coded, and fully tested a software system in Java for use by patients and data analysts in analyzing and extracting various crucial statistics about hospitals across the US. The program utilizes a simple and user-friendly GUI.

Line-Directed Robot – Storrs, CT

- Wired and programmed a 2-wheeled robot to follow or avoid a line of tape using IR sensors (in Atmel Studio, using C).

FPGA Pong Game – Storrs, CT

- Designed and programmed a 2-player Pong game on an FPGA board (in Xilinx Vivado, using C and VHDL).

EDUCATION

University of Connecticut – Storrs, CT

Aug 2016 — May 2020

Bachelor of Science in Computer Engineering

GPA: 3.8/4.0

- **Honors & Awards:** 1st Place Senior Design Winner, New England Scholar, Dean's List Scholar, Cum Laude Grad
- **Extracurriculars:** 3D Printing Club, ACM-ICPC International Collegiate Programming Contest