

## TECHNICAL SKILLS

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**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

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**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

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**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

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**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