# SAM R.

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#### WORK EXPERIENCE

**HCLTech *—*** Remote *Nov 2020* ***–*** *Present*

***Data Analyst & Engineer***

* Create **insightful data solutions** and other tools for various teams at a large tech company.
* Develop **ETL workflows** to efficiently query, transform, and aggregate data for analysis (SQL, Python, Pandas).
* Work with various data tools (GCP, Snowflake, Jupyter, Looker, Tableau) to **analyze data** and **build reporting tools**.
* Build apps/bots to **automate launch processes** and **boost the productivity** of engineers and PMs (Python, JavaScript, HTML, Java). Data ingestion for these tools enabled us to track impact and performance over time, allowing us to see a **clear reduction (50%+) in** **time to launch new features** to production.

**English by Merit *—*** Remote *May 2020* ***–*** *Nov 2020*

***Developer & System Analyst***

* Hired at a small company to work on a scholarship matching website that helps 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, tech consulting, and production of written reports with comprehensive system diagrams.

**Doosan Fuel Cell America *—*** 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 worldwide. 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 **quickly** identify, prioritize, track, and resolve issues.
* 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.
* Experience in imaging, ghosting, installing, and licensing various types of software on many different machines.
* Responsible for repairing and/or replacing faulty pieces of hardware to save on computer costs.

**YouTube *—*** Online *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 dividing tasks for the group.
* Tech stack: Python scripting/automation, cloud API, Android app development, Arduino, Matlab, Apache JMeter.

#### EDUCATION

**University of Connecticut *—*** Storrs, CT *Aug 2016* ***–*** *May 2020*

***Bachelor of Science in Computer Engineering* GPA:** 3.8/4.0

* **Courses:** Data Structures and OOP, Software Engineering, Scientific Computation, Systems Programming
* **Honors & Awards:** 1st Place Senior Project Winner, New England Scholar, Dean’s List Scholar, Cum Laude Grad

#### TECHNICAL SKILLS

**Coding:** Python, Advanced SQL, Pandas, JavaScript, C/C++, Java, Git, HTML, CSS, Node.js, Matlab, R, Bash, Assembly

**Software:** Linux, AWS, GCP, Jupyter, VS Code, Tableau, Looker, Snowflake, Airflow, Jira, Eclipse, Android, VirtualBox

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