

Nikki Aaron

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CAREER OBJECTIVE

I am a self-driven, creative data scientist with a background in statistical data analysis, programming, and engineering. Upon graduation in May, I hope to join an innovative team to make use of and develop my skills.

PROFESSIONAL EXPERIENCE

Data Science Research Assistant, University of Virginia *August 2020 - Present*

- Data mining of census and GIS big data sets with Python and Spark.

Full Stack Web Developer, Ameronix Corporation *March 2018 - July 2020*

- Developed scalable, fault-tolerant web apps in PHP, Javascript, React, Node, Laravel, and Vue.js to help entrepreneurs manage their business processes.
- Created apis, schedulers, and payment systems that saved clients time and money, and improved the user experience for their customers and employees.

Load Rating Engineer, Virginia Department of Transportation *September 2016 – October 2017*

- Performed structural analysis of bridges to grant permits for oversized load crossings.
- Reduced permit processing time by 60% by automating our calculations and decision making using Visual Basic code in Excel.
- Mocked up an ArcGIS mapping application for bridge data management after completing ArcGIS training.

Product Engineer (promoted from Manufacturing Engineer), Johnson Controls *April 2014 – June 2016*

- Integrated computer vision systems into our assembly line and trained their machine learning algorithms to detect defects from captured images.
- Completed Six Sigma Green Belt project to eliminate \$1500/day in defective assemblies.
- Experimented with variable production parameters to optimize the quality of layered plastic and leather products. This optimization added a previously un-processable product line to our plant, saving the company tens of thousands of dollars in air-freight costs annually.

Mechanical Engineer I, UAB Center for Biophysical Sciences and Engineering *September 2011 – Nov 2013*

- Worked with the team contracted by NASA to build and maintain cryogenic freezers for scientific experiments. My team designed an optimized heat sink and piezoelectric fan system which was installed in freezers and sent to the International Space Station.

EDUCATION

M.S. - Data Science | University of Virginia *4.0 GPA, 2021*

Certificate - Full Stack Web Development | University of Richmond *2018*

B.S. - Mechanical Engineering with Honors | University of Alabama at Birmingham *3.56 GPA, 2013*

Skills

Programming Python · R · PHP · Spark · Excel/VBA

Database MySQL · SQLite · GraphQL · MongoDB

Visualization GGPlot · Tableau · ArcGIS

Web Development HTML/CSS · Javascript · React · Vue · Node · Laravel · Magento E-Commerce

Cloud Computing Amazon Web Services (AWS) · remote SSH

Technical Writing & Documentation Microsoft Office Suite · Markdown · LaTeX