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*
- Coded for data collection, visualized data in dashboards, and developed data analytics strategies to help entrepreneurs and businesses gain customer insight from activity on their websites.
- Created apis, schedulers, and payment systems for scalable web apps 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*
- Reduced permit processing time by 60% using Visual Basic code in Excel to automate our calculations and decision making based on historical data.
- 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 where I used statistical and regression analysis on variable production parameters for optimization and root cause determination. These optimizations eliminated $1500/day in defective assemblies, and saved the company tens of thousands of dollars in air-freight costs annually by moving a previously un-processable product line to in-house production.

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