

KENNETH ALVIOLA

DATA SCIENTIST

CONTACT



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TECHNICAL SKILLS

SQL - Python - Numpy - Matplotlib - Seaborn - Git - Pandas - Machine Learning - Jupyter Notebooks - NLP - Electro-Mechanical Troubleshooting

EDUCATION

Certificate of completion, codeup

Codeup San Antonio Campus
Dec 2020 - June 2021

Fully-immersive, project-based 22-week career accelerator that provides students with 670+ hours of expert instruction. Developed expertise across the full data science pipeline (planning, acquisition, preparation, exploration, modeling, delivery), and became comfortable working with real world data to deliver actionable insights to stakeholders.

Bachelor of Science in applied science and technology, major in Nuclear engineering technology

Thomas Edison State University
Jan 2009 - June 2010

Nuclear Propulsion plant operator Qualification

US Navy Nuclear Power School
Apr 2005 - Dec 2006

HIGHLIGHTS

- US Secret level security clearance (inactive)
- Naval Nuclear Power School graduate with honors
- Qualified S8G nuclear reactor operator

PROFILE

My experience in semiconductor and nuclear engineering helped me to develop excellent analytical and troubleshooting skills. I continue to use these skills to learn and grow professionally.

DATA SCIENCE PROJECTS

SEMICONDUCTOR FAILURE PREDICTION

Classification side project | Apr 2021

A side project in which I built a Logistic regression model and deep learning sequential model to predict if a silicon wafer will pass percent-yield spec after the manufacturing process.

GITHUB REPO PROGRAMMING LANGUAGE PREDICTION

NLP/Classification Project | May 2021

Project examining text scraped from cryptocurrency related Github repositories. I analyzed keywords from the top 5 programming languages and built a logistic regression and Linear Support Vector Classifier to predict the primary language given the README text.

CAPSTONE - NLP FAKE NEWS

NLP/Classification/Deep Learning | May 2021

Team project exploring fake and real news article text using natural language processing. We built a logistic regression model and deep learning model that can accurately identify fake news articles. In addition to our models we deployed a web app that uses our prediction model to classify bodies of raw text or text from URLs as fake or not.

PROFESSIONAL EXPERIENCE

SENIOR FIELD SERVICE ENGINEER

NSTAR Global Services | Mar 2018 - Nov 2020

- Primary install engineer of Lam 2300 etch tools at Intel China, Intel Israel, and Micron Virginia
- Conducted customer and coworker training
- Performed contract service on conductor and dielectric etch chambers at Micron Utah

EQUIPMENT TECHNICIAN

Samsung Austin Semiconductor | Aug 2017 - Mar 2018

- Troubleshoot and maintained Lam 2300 Poly etch and strip chambers in high volume production fab
- Analyzed data and cleared equipment monitoring interlocks for production tools

FIELD SERVICE ENGINEER 2

Lam Research/NSTAR | July 2011 - May 2017

- Installed and maintained Lam 2300 etch chambers at Global Foundries NY, Sony Japan, Micron Taiwan, Inotera Taiwan, Nanya Taiwan, Intel Israel, Intel China, and XMC China
- Provided install and warranty support on conductor and dielectric etch platforms at Samsung China and Micron Singapore

ELECTRONICS TECHNICIAN (NUCLEAR)

United States Navy | Apr 2005 - Jan 2008

- Operated and maintained reactor plant onboard \$1 billion submarine
- Executed routine maintenance on S8G and S6G reactor plant instrumentation