

OBJECTIVE

To obtain a position which utilizes both computer science and engineering skills and ability to quickly learn complex concepts to solve cutting-edge problems in machine learning, statistical analysis, and high performance computing.

EDUCATION

Georgia Institute of Technology – Atlanta, GA 08/2018 – 12/2019

Master of Science, Computer Science – Machine Learning

Kennesaw State University – Kennesaw, GA 08/2017 – 05/2018

Graduate Certificate, Computer Science Foundations, 4.0 GPA

Georgia Institute of Technology – Atlanta, GA 08/2003 – 12/2008

Bachelor of Science, Mechanical Engineering

EXPERIENCE

Emerson – Atlanta, GA 05/2018 – present

Innovation Technologist Intern – Innovation Group

Developed predictive maintenance model to compare predicted versus actual energy usage in customers' stores to detect anomalies and prevent failures

- Obtained, cleaned, and prepared training data
- Tuned hyperparameters to determine optimal model configuration
- Made predictions on new data, analyzed results, and stored in local database
- Working to use weather forecasts to predict demand multiple days in advance

In collaboration with Chick-fil-a, Dover, and AT&T, implemented blockchain to explore its use in supply chain management

- Acted as shipping company in simulation utilizing Emerson's Go temperature and location tracking device
- Developed API to interact with blockchain, internal database, Go device, and customers

Southwire Company – Carrollton, GA 09/2013 – 04/2017

Mechanical Engineer – Corporate Engineering

Managed projects of increasing size and complexity including:

- Security upgrades for facility (~\$100,000)
- Renovation of facility including new break room and offices (~\$300,000)
- Repair and expansion of facility (~\$1,000,000), resulting in annual savings of \$500,000

Specifications Engineer – Specifications and Standards

Assisted in the design and implementation of Southwire's Manufacturing Specification System, CableBuilder

- Developed method for creating plant alternatives that cut processing time in half
- Created process for updating database table that reduced working time from 1 day to 2 hours
- Programmed formulas to calculate product specifications in JavaScript and SQL

Development Engineer – Industrial Development

- Launched two new mining cable products

ThyssenKrupp Resource Technologies – Atlanta, GA 01/2009 – 08/2013

Mechanical Engineer – Equipment Design and Manufacture

- Created CAD drawings, 3D models, and BOMs for new and existing equipment
- Created RFQs and PRs and acted as technical contact throughout purchasing process
- Visited customers to perform inspections and assist in the installation and servicing of equipment
- Completed 2 ½ year training program in Germany specializing in grinding technology

SKILLS

- Software – Python (NumPy, pandas, scikit-learn, Flask, SQLAlchemy, Keras) [int], SQL [int], Java [beg], Git [beg]
- CAD Packages – Autodesk AutoCAD Mechanical 2015 [int], Autodesk Inventor 2015 [int]
- Language – German [adv]

PROFESSIONAL DEVELOPMENT

- Udemy – Python for Data Science and Machine Learning Bootcamp, Complete Java Masterclass, Complete Python Masterclass
- Coursera – Machine Learning
- Udacity – Deep Learning Foundations Nanodegree

PROJECTS

tracetidwell.com, Triathlon Race Time Predictor, Yahoo! Fantasy Football Stats Compiler, RNN for Script Generation, GAN for Face Generation, RNN for Translation, CNN for Image Classification