Trace Tidwell

Computer Science Graduate Student

Personal Info

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450 Dan Pl SE
Smyrna, GA 30082

Phone
(770) 714-9747

Email
trace@trace.tidwell.com

Website
www.tracetidwell.com

LinkedIn
www.linkedin.com/in/tracetidwell

Skills

Autodesk AutoCAD
advanced

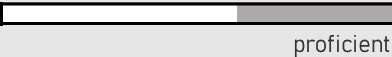Autodesk Inventor
proficient

Microsoft Office
proficient

Software

Python
proficient

SQL
proficient

Java
intermediate

TensorFlow
beginner

Git
beginner
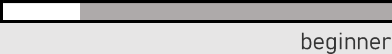
Languages

German
advanced

Newly accepted computer science graduate student. After achieving my goal of returning to Georgia Tech, I am now looking to gain experience in my new field, particularly in the area of machine learning. Fully committed to this career change and eager to prove myself.

Experience

01/2016 – 04/2017 — **Mechanical Engineer**
Southwire Company

- Managed security upgrades for facility (~$100k)
- Managed renovation of facility including new break room and offices (~$300k)
- Began project to repair and expand facility (~$1MM), resulting in savings of $500k/yr
- Prepared quotes for upgrade of water treatment plant for main campus (~$250k)
- Designed and installed propane filling station for R&D center
- Prepared quotes for upgrade of compressed air system for facility (~$250k)

07/2014 – 01/2016 — **Specifications Engineer**
Southwire Company

- Assisted in the implementation of Manufacturing Specification System, CableBuilder
- Developed method for creating plant alternatives that cut processing time in half
- Created process for updating packaging table, reducing time from 1 day to 2 hours
- Created Product Specification Sheets for using SQL/Crystal Reports
- Programmed formulas to calculate product specifications in JavaScript
- Tracked new orders, change orders, and specification changes using JIRA

10/2013 – 07/2014 — **Development Engineer**
Southwire Company

- Launched two new mining cable products

01/2009 – 08/2013 — **Mechanical Engineer**
thyssenkrupp Resource Technologies

- Created CAD drawings, 3D models, and BOMs for new and existing equipment
- Acted as technical contact throughout quoting and purchasing process
- Inspected and assisted in the installation and servicing of equipment
- Completed 2 ½ year training program in main office in Germany specializing in grinding technology

Education

08/2018 – 07/2020 — **Georgia Institute of Technology**
Master of Science, Computer Science – Machine Learning

08/2017 – 05/2018 — **Kennesaw State University**
Graduate Certificate, Computer Science Foundations

08/2003 – 12/2008 — **Georgia Institute of Technology**
Bachelor of Science, Mechanical Engineering

Courses

Python for Data Science and Machine Learning Bootcamp
Complete Java Masterclass
Complete Python Masterclass
Deep Learning Foundations Nanodegree

Projects

Classification – Compared performance of 5 classifiers on census data to predict high or low income
Clustering – Implemented K-means algorithm
Deep Learning – CNN for image classification, RNN for script generation, RNN for text translation, GAN for face generation
Triathlon – Race Time Predictor, Workout Planner, Workout Analyzer