

Andrew J. Higgins

Broomfield, CO 80021
(978) 399 4763
AJHiggins96@gmail.com

Seeking a challenging career role as a data scientist, analyst, or engineer with a leading technology company. The ideal position will require my technical skills, enthusiasm for customer orientation, and team-driven approach for solving problems in an industry specializing in computer vision or natural language processing.

Tech Stack & Skills

Python	AWS	Data Visualization	Sys. Engineering	NLP	Computer Vision
Tensorflow & Keras	SageMaker	Matplotlib	Docker	GPT, BERT, T5	Img. classification
Numpy & Pandas	Lambda	Tableau	Kubernetes	RNNs, LSTMs	Feat. recognition
FastAPI	EC2	HTML & CSS	Redis	Transformers	Transfer learning:
Jupyter Lab	Lightsail	D3.js	Grafana & Istio	Benchmarking	ResNet, VGGNet

Graduate Education

Master of Information and Data Science, UC Berkeley

Sep 2022 - April 2024

- Project-backed experience with Python, modern deep learning architectures, pipeline engineering infrastructures, statistical analysis, experimental design, and data communication
- Projects and coursework:
 - End-to-end skin cancer detection product; Nutrition data visualization; Fine art image classification model; Robust ML API infrastructure; Natural language processing evaluation
- Roles, responsibilities, and competencies:
 - Full-stack data engineer, data scientist, team spokesperson
 - Transforming, displaying and communicating complex data sets; Transfer learning; Feature extraction; Dimensionality reduction; Containerization, app autoscaling, caching, and performance metrics tracking

Mechanical Engineering Experience

Metal Additive Manufacturing Department Manager, Visser Precision

Denver, CO — May 2020 - Feb 2022

- Used Mechanical Engineering tools: SolidWorks, Autodesk Inventor, Matlab, ANSYS, LabVIEW, ImageJ, Materialise Magics, EOS GmbH printers and softwares, JobBoss ERP
- Was promoted from Engineering position after 6 months to hire, train, and manage a team of four employees
- Oversaw additive manufacturing production projects in aerospace, auto racing, and medical device markets
- Cultivated customer and supplier relationships from quote through shipped product
- Practiced continuous process improvement within AS9100, ISO9001, and ISO13485 quality management system
- Formed and improved working relationships with industry partners such as EOS, Elementum3D, Ursa Major Tech

Senior Design Project, Folsom Custom Skis

University of Denver, CO — 2018-19 academic year

Mechanical Engineering Intern, Killark Division, Hubbell Inc.

Saint Louis, MO — Summer 2018

- Designed & built Ingress Protection (IPX9) test station for product development lab

Engineering Change Coordinator, IMI Precision Engineering

Littleton, CO — Aug 2016 - Aug 2017

- Coordinated interdepartmental Engineering Change Orders for Littleton, CO & Queretaro, Mexico factories
 - Increased monthly on-time change completion from 43% to 80%; reduced backlog by 84%

Undergraduate Education

BS Mechanical Engineering, University of Denver

Denver, CO — Sep 2014 - May 2019

- Minors of study in Spanish language, Mathematics, & Physics
- Tau Beta Pi Engineering Honors Society

Other Experience and Interests

- El Camino de Santiago, French Way: 535 miles backpacking, 33 days walking - summer 2019
- Risk Manager of Lambda Chi Alpha fraternity - 2015-2016
- High school ski team captain; US Rowing Youth National Championship 6th place finisher - 2014
- Semester abroad in Sevilla, Spain - 2018; Volunteer & student in Costa Rica - summer 2013
- Spanish Language proficiency