

Patrick A. Gardner

gardnerpat.com

Education

University of Pittsburgh, Swanson School of Engineering (SSOE) B.S. Computer Engineering, Math & Economics Minors, Supply Chain Certificate GPA: 4.00 – Dean’s List, University Honors College	2017 – April 2021
Houston High School – Germantown, TN Valedictorian of 445; ACT: 36 (Writing: 36)	2013 – 2017 Varsity Football, Varsity Soccer, Varsity Tennis

Experience

Belvedere Trading – Chicago, IL <i>Leading proprietary trading firm of about 300, specializing in equity index and commodity derivatives</i> Junior Trader Intern – Converted to Trading Education Program due to COVID-19	July 2020 – August 2020
Google – Pittsburgh, PA Software Engineer Intern – Ads ML <ul style="list-style-type: none">Optimized filtered feature generation for production models by storing pre-computed data (~85% runtime reduction)Presented on GT data for binary classification models and implemented approved change to save ~4% of manual reviewsExperimented with novel data sources on team’s models and presented results to the departmentDeveloped pre-processing pipeline in C++ for de-duplication of ML training examples	February 2020 – May 2020
Capital One – Richmond, VA Software Engineer Intern <ul style="list-style-type: none">Automated the Data Transformation team’s ETL process diagrams in Python via SVGs to aid in migration to AWSReplaced manual work of 30 contractors and allowed for production support without Ab Initio (~\$1.5M in total savings)Utilized SQL queries to Snowflake database to draw real-time information of on-premises and cloud environments	June 2019 – August 2019
MOVISU-Fit – Pittsburgh, PA <i>Department of Rehabilitation Science and Technology – Pitt Innovation Challenge \$175,000 winning project</i> Student Developer/Team Lead <ul style="list-style-type: none">Established end-to-end system with an FSR insole sending data over Bluetooth SPP and Vuzix glasses seeing responseDefined and integrated Java state machine to quantify steps for gait analysis and feedback in Android appAided in the hiring of two additional engineers and served as impromptu team lead under the physical therapistDe-bugged previous C++ codebase for efficient execution on less powerful devices for ease of use	September 2018 – June 2019
K&L Gates, LLP – Pittsburgh, PA <i>Fully integrated global law firm with almost 2,000 lawyers located across five continents</i> IT Business Analyst Intern – Working with the Business Transformation Office of IT <ul style="list-style-type: none">Created an up-to-date strategic road map for CIO presentations by meeting with 20 directors and managersFormed arguments and statistical charts in business case for purchase of a \$1M per annum software solutionGathered requirements to update the department’s intranet site for greater applicability	May 2018 – August 2018
Helios, now Optum Workers’ Comp – Memphis, TN <i>\$1.7B national pharmacy benefit management company that was acquired by the ~\$90B major component of UHG, Optum</i> CFO Shadow	March 2016 – August 2016

Leadership

President of Engineering Business Administration Club, Panther Algo Trading Club	March 2018 – Present
Resident Assistant in Forbes, Panther Engineering Halls: SSOE Liaison	2018 – 2019, 2019 – 2020

Skills

Python, Java: Data Structures, Algorithm Implementation	Business Analytics: Corporation Finance, SQL
C/C++, UNIX: Engineering Analysis, Systems Software	Ruby, Katalon: Software Quality Assurance
TensorFlow, TFX, Apache Beam: Machine Learning	JavaScript, Flask, GCP, APIs: Web App Development

Honors and Certifications

AWS Certified Cloud Solutions Architect – Associate (2019)	Lean Six Sigma Green Belt Course (2019)
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