Dallin Stewart

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EDUCATION

M.S. Computer Science - *Georgia Institute of Technology*   June 2026
  ➤ Interactive Intelligence Specialization

B.S. Applied and Computational Mathematics - 3.99/4.00 GPA   April 2024
Brigham Young University
  ➤ Computer Science Minor, Data Science and AI/ML Emphasis, Math Department Dean's List

SKILLS

Python, C++, Java, SQL, OpenCV, Rest API, PyTorch, Git/Bash, Pandas, Selenium, Data Analytics, Bayesian Statistics, Route planning, Machine Learning, Kalman Filters, Agile, Jira, Spanish

EXPERIENCE

Quantitative Researcher — Union Capital Partners   **July 2024 - Present**
  - Built AI/ML models (Random Forest, XGBoost, LSTM) to predict market trends and automate stock trading
  - Developed APIs to enable real-time data collection, feature engineering, and trading bots with visual insights

Software Engineering Intern — Ericsson   **June 2023 - August 2023**
  - Promoted communication with an Agile project request form in Python using rest API and custom UI
  - Simplified product intake and reduced waste with an Ignition app using robust, automated fuzzy logic

Intern Analyst — Wells Fargo   **June 2022 - August 2022**
  - Optimized speed and accuracy by 20% for emission estimates with noisy entity-matching algorithm analysis
  - Presented and coached name-matching techniques for data analytics and business professionals

Research Assistant — Brigham Young University   **January 2022 - April 2024**
  - Developed Bayesian priors and ran 100,000 MCMC tsunami simulations using Metropolis Hastings to determine the 1860 Indonesian tsunami's source with unreliable data and wrote the paper submitted for publication

Software Engineering Lead — BYU Formula E Racing Team   **August 2022 - June 2024**
  - Led software dev for the ECU and sensor array in BYU's Formula SAE electric race car; developed a C++ OOP architecture, managed GitHub and Jira, and visualized data with Plotly to improve engineering designs

Program Director — Life Help Arizona   **August 2020 - April 2021**
  - Developed a CMS software and custom real time KPI dashboard to refer 50 leads per day from Facebook
  - Executed a $30,000 annual marketing strategy across 10 Facebook pages to improve lead conversion
  - Started an English class in 7 cities with 150 students in a year by training volunteers to improve performance

PROGRAMMING PROJECTS

Novel DL Layer	(Python) Researching a novel neural network layer inspired by origami	**2024**
Celebrity Look Alike	(Python) An award-winning facial recognition algorithm in the ACM hackathon	**2023**
Color Correction AI	(Python) Trained a GAN deep learning architecture to color grayscale images	**2023**
Mini Chat-GPT	(Python) Improved karpathy's minimal PyTorch re-implementation of Chat GPT	**2023**
CV Car Market Analyzer	(Python) Scraped car sales for market research and detected damage with AI	**2022**
Family Map Android App	(Java) An Android app and server to view family history with SQL and APIs	**2022**
Datalog Compiler	(C++) Optimized custom parser and compiler to run datalog programs	**2021**