Evan Ward Dietrich

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EDUCATION

Tufts University, Medford MA
B.S. Computer Science, B.S. Cognitive and Brain Sciences, expected May 2021
- GPA: 3.52; Recipient of the Edgar N. and Faith A. Johnson Scholarship, Dean's List

Relevant Coursework
- Algorithms, Data Structures, Machine Learning, Machine Structure & Assembly Language, Statistics, Linear Algebra, Discrete Math, Computer System Security, Programming Languages, Logic, AI, NLP

EXPERIENCE

JPMorgan Chase & Co., Columbus OH
Software Engineering Intern, June 2020 — August 2020
- Built clustering model to classify nonprofit clients from need, engagement, and financial records.
- Automated personalized feeds by user and category to bolster usage, and reduce program dropout.

MIT Lincoln Laboratory, Lexington MA
Student Technical Researcher, August 2019 — Present
- Developing deep learning algorithm pipeline to identify and translate American Sign Language to English sentences via unique hand shapes, movements, and facial expression in video and image data.
- Improved test set translation accuracy to 94% by introducing facial feature usage on a robust lexicon.

Software Engineering Intern, May 2019 — August 2019
- Designed and developed automated software system in C++ to set hardware configurations and run calibration tests on lasercom terminals, replacing 3-week manual testing with overnight calibration.
- Implemented MATLAB signal processing algorithms to make real-time corrections on transmissions.
- Programmed API functions, request-handler, and user interface components of client-server system.

Tufts University Department of Computer Science, Medford MA
Senior Teaching Assistant, January 2018 — Present
- Leading office hours to support graduate students taking Computational Models in Cognitive Science.
- Instructed weekly 2-hr labs on data structure implementations in Discrete Math and Intro CS courses.

Tufts University Human-Robot Interaction Laboratory, Medford MA
Research Assistant, January 2018 — April 2018
- Devised new Python methods for a neural network modeling language-switching costs for bilinguals.
- Built a GUI to run the model, expediting evaluation time and simplifying user-computer interaction.

PROJECTS

Code for Good Hackathon, Columbus OH
- Built regression model predicting loan repayment likelihood from client data, led team to win overall.

Brain-Computer Interface Heatmap, Medford MA
- Wrote artifact-correction algorithms to reduce heartbeat and muscle interference from EEG sensors.

SKILLS

Languages Python, R, C++, Java, C, MATLAB, Julia, SQL, Bash
Technologies Agile, Git, Linux, Unix, Stata, SAS, Jupyter, Pandas, PyTorch, TensorFlow, Sci-kit Learn