

Dylan Mace

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EDUCATION

Atlanta, GA

Georgia Institute of Technology

August 2019 – May 2024

- Bachelor of Sciences in Computer Science concentrating in Human-Computer Interaction & Machine Learning
- Master of Sciences in Computer Science concentrating in Human-Computer Interaction
- Major GPA: 4.0, Overall GPA: 3.95

EXPERIENCE

iOS Developer Intern

Garmin Dive

May 2022 – Present

- Created an iOS reusable component capable of displaying custom map information given a series of markers
- Re-engineered custom Garmin map tile overlay caching system to improve map loading speed by 30%
- Implemented a complete offline user experience including local data storage and offline Bluetooth LE sync (the first major app to support offline interaction at Garmin)
- Prototyped and implemented dive site predictions based on dive entry and exit points
- Prototyped a complete UI redesign in Figma to bring a cleaner and more modern design philosophy

AI Engineering Intern

Collins Aerospace

May 2021 – August 2021

- Created extension of Nvidia's StyleGAN neural network for use in generating multiple types of synthetic images based on user input
- Trained LSTM BERT neural network for sentiment analysis to be deployed within many company free-form text boxes
- Constructed profanity detection heuristic designed to catch commonly-missed edge cases
- Designed and deployed RESTful API for free-form text validation and NSFW detection

Technical Intern

Collins Aerospace

June 2020 – August 2020

- Researched And developed an ML/AI ethics framework used by Collins Aerospace to vet potential project ideas
- Assisted on multiple proprietary artificial intelligence projects

PROJECTS

Distal Radius Implant Identifier

August 2021 – May 2022

- Developed an end-to-end pipeline capable of identifying wrist implant manufacturers from X-ray images
- Prototyped and designed entire UI/UX using SwiftUI
- Developed Tensorflow image classification model and ported to CoreML for offline image classification

Evaluating Technical Indicator Effectiveness In Stock Trading

August 2021 – December 2021

- Analyzed financial indicators to determine relevance for identifying stock patterns
- Implemented convolutional and LSTM neural networks for stock classification based on indicator data
- Performed detailed statistical analyses on all network types to determine most useful implementation

SKILLS AND TECHNICAL EXPERIENCE

Coursework: Data Structures and Algorithms, Ubiquitous Computing, Machine Learning, Intro to Artificial Intelligence, Algorithm Design, Computer Vision, Relational Database Systems, Human-Computer Interaction, Computational Ethics

Technical Skills: Swift/SwiftUI, Python, Java, HTML/CSS/JavaScript, UI/UX Design, SQL and Relational Database Design, Data Structures, Algorithm Design, Git/GitHub, OpenAPI Spec Sheet Creation

Business Skills: Project/Time Management, Leadership, Problem Solving, Teamwork, Public Speaking, Conflict Resolution