

Anthony D'Andrea

anthony.dandrea@uconn.edu / 203.788.3012 / <https://github.com/anthonydandrea>

Education

University of Connecticut / Bachelor of Science in Computer Science / Bachelor of Arts in Applied Mathematics

December 2020, Storrs, CT - 3.45 Math GPA - 3.16 CS GPA

- CS courses: Artificial Neural Networks and Deep Learning, Intro to Machine Learning, Big Data Analytics, Principles of Databases, Data Structures, Algorithms, Software Engineering, Theory of Computation, Systems Programming, Discrete Systems
 - Math courses: Calculus I-III, Differential Equations, Linear Algebra, Probability, Markov Processes, Statistical Methods, Numerical Analysis 1
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Skills

Languages - Python, Javascript, Java, C++, Bash, Matlab

Back End - Express, Node, Kubernetes, Docker, Apache Kafka

Front End - React, Redux, jQuery, HTML, CSS

Databases - NoSQL (MongoDB), SQL (MySQL)

Experience

Saab Sensis Corp / Software Engineer Co-Op / R&D Application Prototyping

August 2018 - May 2019, Syracuse, NY

- Architected and implemented full stack infrastructure for a themeable, pluggable PWA which displayed customized layouts of plugins based on operator role and permissions
- Developed front-end of PWA (Progressive Web App) demoed during bid for \$2.3 million contract
- RESTful API backend created using Swagger Tools for querying and modifying database contents
- Developed several administrative plugins for creating new layouts, themes, workstation arrangements, toolset groups, data subscriptions, and settings for plugins
- Developed operator plugins for streaming ITWS and NOTAM data via socket connection and rendering PDFs
- Created several lifecycle-pipeline scripts for bootstrapping a fresh dev environment, creating a system release, deploying and extracting the system, managing databases, tagging components, and publishing API documentation
- Technologies used: MERN (Mongo, Express, React, Node), Redux, Kubernetes, Docker, Python, Bash, Apache Kafka

Post Meridian LLC / C++ Programmer

October 2016 - January 2017, Cromwell, CT

- Cross-platform mobile app development using Qt C++ framework
 - Worked part-time fixing bugs and refactoring codebase into functional, modular system which improved future development efficiency
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Projects

CrowdCart / 3rd Place HackHamp Project / 35 teams

- Android app for creating an optimal shopping trip based on store distances and product prices
- Assisted with product design and pitch, while implementing Google APIs into Android studio for location of nearby stores in order to compare crowd-sourced prices from user's receipts, scanned with Google OCR API

KhanDataBeast / OpenHack 2017 Khan Academy Project

- Python project for assisting KhanAcademy in approving or rejecting strings that were translated online
- Led team in designing and implementing several pre-translational and post-translational scripts, which were able to help reject 30% of the attempted translations, saving hundreds of man-hours

Superior Metronome / Personal Project

- React Native app for marching band instructors to consolidate their metronome sequences, MP3 files, and sheet music into one easy-to-use, centralized location, that can be shared with students