

Anthony DeArmas

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EDUCATION

Cornell University, Ithaca NY

Bachelor of Science in Computer Science, May 2022

EXPERIENCE

FTI Consulting Full Stack Software Engineer, Current

- Implementing API and UI features for multiple client projects concurrently, leveraging frameworks such as Angular 2, React, Laravel and MySQL.
- Creating dynamic and thoroughly tested code adhering to SOLID programming principles and standard design patterns, ensuring successful passage through CI/CD pipelines for robust software delivery.
- Adhering to AGILE methodologies with 2-week sprint cycles for efficient, iterative development.
- Performing routine maintenance and support on client applications hosted on AWS, ensuring optimal performance and uptime.
- Engaging in direct communication with clients to discuss feature requirements and address support issues.
- Contributing to recruitment efforts by conducting both behavioral and technical interviews.

CS Department Research Assistant, Spring 2022

- Collaborated with a professor from Cornell Tech and students from Cornell and Harvard Universities to evaluate the effectiveness of a new visual programming interface for Quantum Computing.
- Debugged visual interface and thoroughly tested machine learning project components.
- Conducted randomized studies to measure effectiveness of new interface against existing APIs.

INFO 4240 Teaching Assistant, Fall 2021

- Taught recitation section of 48 students every week and held office hours to assist students with course assignments.
- Coordinated with professor and other teacher assistants to plan weekly schedules.

FTI Consulting Full Stack Software Engineer Internship, Summer 2021

- Developed and integrated various UI/API features, which were successfully merged into the master branch and utilized in production environments.
- Gained client communication skills by attending client meetings with my team.
- Learned team workflow logistics and standard industry processes for submitting and testing code.
- Designed a MySQL database schema to optimize an existing database.

iD Tech Programming Instructor Part-Time, 1 year

- Taught students, ages 10-17 years old, the program development process and how to create optimized code using Lua, Python and Java.
- Lead my own online classrooms of 5 students through online video conferencing.
- Challenged and inspired students by assigning coursework that allows them to learn foundational programming concepts.

PROJECTS

SafeServe Metro Full Stack Web Application

- Deployed a full-stack responsive web application using Angular 2, Express, and MySQL on AWS for a business client, leading to over 80 active customers making purchases since its launch.
- Developed an automated sign-up system that generates login credentials for users, utilizing the Square API to detect purchases.
- Engineered a custom authentication system using JSON Web Tokens (JWT), incorporating an automated detection feature for excessive failed login attempts to enhance security.
- Designed and implemented an e-learning quiz and exam system that tracks and visually represents user progress per chapter on a dashboard, leading to a 55% increase in the pass rate.
- Implemented server-side rendering techniques and followed industry-standard best practices to boost SEO performance.

AI-Learners: Special Needs Children's Learning Platform

- Collaborated with Cornell University students to create a full stack learning platform for children with special needs.
- Created user feedback form and connected data to NoSQL database for machine learning model to adjust user's difficulty.
- Optimized game framework to make future updates easier to implement and for faster performance.

GmodStore Notifier Application and Freelance LUA Solutions

- Used Java to create an automated application that notifies users of newly posted freelance dev jobs.
- Engineered a job searching algorithm that detects a new job posting or a change in latest job postings, such as deletions.
- Utilized application to complete various Lua programming jobs for clients and gained a positive reputation in freelance.

COURSEWORK

Computing Using Python • Object-Oriented Programming & Data Structures • Discrete Structures • Linear Algebra • Functional Programming • Artificial Intelligence • UNIX Scripting • Operating Systems • Data-Driven Web Applications • Database Systems • Computer System Organization • Ubiquitous Computing • HCI • Introduction to Analysis of Algorithms • Introduction to Computer Vision • Unix Tools and Scripting

SKILLS

Python (Django, Flask), Java, JavaScript, TypeScript (Angular, React), Lua, C++, HTML/CSS, SQL (MySQL), OCaml, PHP (Laravel), NoSQL (MongoDB), Bash

PUBLICATIONS

Ian Arawjo, **Anthony J. DeArmas**, Michael Roberts, Shrutarshi Basu, and Tapan Parikh. 2022. Notational Programming for Notebook Environments: A Case Study with Quantum Circuits (2022).