DAVID SILVEIRA

SOFTWARE ENGINEER

CONTACT

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🌐 https://portfolio-page-iota.vercel.app

in https://portfolio-page-iota.vercel.app

📍 21 Palmer Way, Wilmington, Ma

SKILLS

Python Frameworks -- Django + Flask

JavaScript Frameworks -- React.js + Next.js

Containerizing Applications -- Docker + Docker Compose

AI Model Deployments -- Bash Scripting + Pre-Trained Model Integrations

Business Vision -- Research + PowerPoint Presentations

EDUCATION

University of Massachusetts Amherst

Bachelor of Science

2017-2021

Psychology Major with a Neuroscience focus, complemented by Computer Science coursework in Data Structures (Java), System Principles (C), and Discrete Computational Theory

Columbia University

Coding Boot Camp

2021-2022

Enhanced my computer science acumen, building upon the foundation established during my undergraduate minor in the field.

PROFILE

Equipped with a distinctive aptitude for problem-solving, I possess an innate sense of timing crucial for meeting project deadlines effectively. My unique skill set encompasses the ability to maintain a clear vision of the broader objectives while meticulously attending to the finer details. This dual focus ensures not only the conceptualization but also the precise implementation of innovative strategies.

WORK EXPERIENCE

Founder, Lead Developer

Easy Covers Software LLC   2022-Present

- **Backend Development**: Spearheaded the creation of a robust backend using the Django framework, ensuring scalability and efficiency.
- **Frontend Excellence**: Implemented the front-end using Next.js, focusing on responsive design and seamless user interaction.
- **AI Model Implementation**: Utilized PyTorch for the efficient downloading and deployment of an advanced machine learning model, contributing to the application's robust data analysis capabilities.
- **Containerization Expertise**: Successfully dockerized the application into 8 containers, optimizing deployment and scalability
- **Server Configuration**: Configured both synchronous WSGI and asynchronous ASGI servers, ensuring high performance and reliability under varying load conditions.
- **Linux Environment Proficiency**: Employed Ubuntu as the primary operating system for both development and production environments, ensuring a stable, secure, and efficient platform for software deployment and operation.

Software Engineer

Forum Systems   2021-2022

- **Data Migration Expertise**: Developed shell scripts to facilitate seamless data migration to an on-premise server for the deployment of an enterprise application.
- **Django REST Framework Mastery**: Acquired proficiency in using Django REST Framework for data serialization, enabling intelligent data display from the database.
- **Front-End Development**: Engineered both Risk Analysis and Legal Analysis user interfaces using React.js, focusing on usability and design aesthetics.
- **Automation and Deployment**: Automated application builds through shell scripts and consistently managed the transfer of new builds to customer's production Linux servers, ensuring operational continuity and efficiency.

Undergraduate Research Assistant

In the Kwak Lab, I wrote a program to analyze survey responses, focusing on how people reacted to specific frame words related to the 2020 election. This program scored paragraph responses from volunteers, categorizing them as angry, neutral, or fearful, aiding in our research on temporal discounting.