DJ Dinnebeil

Software Engineer | Full-Stack Developer

408-493-0402 | djdinn11@gmail.com | GitHub | LinkedIn | Portfolio

TECHNICAL SKILLS

Languages: Python, JavaScript, C++, C, HTML5, CSS, PHP, SQL
Technologies: Flask, Jinja2, Node.js, React, Redux, Vite, Express, SQLite3, PostgreSQL, AWS S3
Knowledge: Agile Development, Neural Networks (CNNs, RNNs), Operating Systems, Data Science, System Design

PROJECT EXPERIENCE

SoundShift Player – Flask | Jinja2 | PostgreSQL   Live | GitHub
A music player designed as a tool to develop custom extensions for Spotify.
- Developed a music server to simulate the Spotify API with Flask Blueprints and RESTful API endpoints in order to bypass external rate limits and to improve the testing workflow.
- Integrated a tracking system by utilizing SQLAlchemy relationships with Flask-Migrate for real-time data collection and storage of user listening metrics and preferences.
- Deployed data management to AWS S3 and PostgreSQL for scalable file storage and improved program reliability.

The Amatol Game – JavaScript | HTML5 | CSS   Live | GitHub
A web-based history education game about the World War I ghost town of Amatol, NJ.
- Developed interactive gaming mechanics with Single-Page Architecture and dynamic DOM manipulation through JavaScript to create an immersive virtual exploration of Amatol, NJ.
- Designed an asset preloading system using asynchronous JavaScript functions and the Promise API to retrieve images and music files in parallel to ensure seamless gameplay.
- Incorporated Tesseract OCR to digitize scanned historical documents into searchable text to provide access to primary source materials.

Auto Core – C++ | Win32 API | SQLite3   GitHub
A utility designed to streamline task execution on Windows 11 systems.
- Developed a keyboard manager with C++23 modules and the Windows API to remap the numpad keys to user-defined commands to improve workflow efficiency and taskbar navigation.
- Built a local database system utilizing SQLite3 to enable end-user personalization and customization.
- Implemented settings and data synchronization through OAuth2 authentication to secure user accounts.

MILITARY EXPERIENCE

United States Coast Guard Reserves   June 2007 – April 2013
Electronics Technician
- Coordinated with users of electronic equipment to perform preventative and corrective maintenance.
- Recognized with the Exceptional Merit Award for technical excellence and readiness to aid colleagues.

EDUCATION

Stockton University   August 2015 – August 2022
Bachelor of Science in Computer Science | Master of Arts in American Studies
- Awarded the Certificates of Distinction in Honors and Service for academic excellence and volunteer service.
- Selected for the Distinguished Research Fellowship to advance research on South Jersey's history and culture.

App Academy – Software Engineering   June 2024 – December 2024
- Completed 1000+ hours in software engineering with a focus on full-stack development and design patterns.