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Joshua Covell
Full-Stack Software Engineer

TECHNICAL SKILLS

Programming Languages | Python 3, JavaScript ES6+, Matlab, SQL, HTML5, CSS

System Design | Monoliths, Microservices, Domain-driven design, Object-Oriented Programming

Back-End | Django 4, PostgreSQL, MongoDB, unit testing, CI/CD

Front-End | DOM manipulation, Websockets, React, Bootstrap, Tailwind

RELEVANT PROJECTS

VisCare | PostgreSQL, FastAPI, React, Docker   Feb '24

https://gitlab.com/the-jam-mod3/vis-care

VisCare is a facility management tool that enables users to track visitor flow, providing essential insights for strategic decision-making and operational efficiency.

- Utilized **FastAPI** and **pydantic data validation** to develop a RESTful API structure that effectively communicates with the front-end and database
- Created a database using **PostgreSQL** with multiple tables and foreign key relationships that allows the back-end to create, read, update, and delete data using **SQL queries**
- Implemented an clean and efficient front-end using **React, bootstrap, and CSS** that is intuitive and easy for users to navigate and interact with
- Followed an **Agile methodology** by utilizing **GitLab's Issue Tracking, feature branches, merge reviews/requests** and developed **unit tests** to allow for **continuous integration and continuous deployment** of the application

CarCar | Docker, React, Django, Javascript, Python   Dec '23

https://gitlab.com/covellj1/car-car

CarCar is an application for managing aspects of an automobile dealership - specifically its inventory, service center, and sales.

- Developed a **microservice architecture** for each of the problem domains required for the service to allow for **scalability and maintainability**
- Applied a **Django RESTful API** structure to develop the back-end, enabling seamless integration & executing **CRUD operations** for efficient management of data for the automobile services microservice
- Employed a **Bootstrap CSS framework** along with **React** to create organized and efficient web pages to allow users to quickly and easily navigate to the desired content and functionality

Tasker | Django, Python, HTML, CSS   Nov '23

https://gitlab.com/covellj1/django-one-shot

Tasker is is a project and task manager application. It's composed of projects, tasks, and the ability to log in, log out, and sign up for the application.

- Implemented user login and **authentication** procedures using **Django** and **python** to allow users to view, create, edit, and delete tasks and projects

PROFESSIONAL EXPERIENCE

San Diego County Regional Airport Authority | Project Manager   May '20 – May '23

- Secured federal grants & managed 15-20 federally funded projects, specializing in residential sound attenuation near San Diego International Airport, resulting in **treatment of over 400 homes for aircraft noise**
- Improved project timelines that increased the number of residences treated in the program per year 20% by implementing critical-path and resource management methodologies
- Facilitated the Aircraft Noise Advisory Committee to provide a forum for collaborative discussion of aircraft noise issues and other related matters between the public and representatives from communities around the airport, the Airport Authority, airlines, and FAA

United States Marine Corps | Executive Officer   Mar '16 – Mar '20

- Improved unit readiness by spearheading the development of comprehensive training plans, streamlining logistics coordination, implementing SOPs, and effectively supervising 200+ Marines, enhancing overall operational efficiency and mission success

EDUCATION

Embry-Riddle Aeronautical University| B.S. Aerospace Engineering   Dec '15

- Graduated with honors

Syracuse University | Project Management Professional Course   Jan '20

Hack Reactor | Advanced Software Engineering Immersive Program   Feb '24