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John Lukich

Full Stack Software Developer | Veteran | TS/SCI Clearance

TECHNICAL SKILLS

Programming Languages | Python3, JavaScript ES6+, SQL, HTML5, CSS

System Design | Monoliths, Microservices, Domain-driven design, Message passing, Event sourcing

Back-End | FastAPI, Django 4, PostgreSQL, MongoDB, JWT, CI/CD

Front-End | Websockets, React, Redux, Tailwind CSS, Bootstrap

RELEVANT PROJECTS

WebChat | <https://github.com/funksy/WebChat>

Apr '24

An online chat application featuring websockets, FastAPI, React, and MongoDB

- Engineered a real-time chat application in 6 weeks as part of a 4 person team, using **WebSocket's** to connect clients to a **FastAPI** backend.
- Designed all of the application's data models, composed database schemas, and persisted data to a selfhosted **MongoDB** server
- Created **Tailwind CSS** styled UI to permit users to create accounts and chat in real-time using **React** backed with **Redux**. Created reducers for managing the list of messages, managing the list of active users, and managing the status of user (logged in or not)
- Integrated a **JWT** based authentication protocol to manage users and validate authentication status.

CarCar | <https://github.com/funksy/CarCar>

Feb '24

An application for managing car dealership operations, featuring Django, React, and PostgreSQL

- Developed an application with one collaborator using **Docker** to implement a microservice architecture featuring 7 distinct services.
- I created 2 of the 3 featured API's using **Django**. My API's present 15 endpoints and use custom encoders to serialize and deserialize data
- Created a **Bootstrap** styled UI using **React** to allow an employee to perform manage vehicle inventory, vehicle sales, and vehicle service operations.
- Implemented **PostgreSQL** database. I developed the the schemas and relationships for 7 models

Maze Generator and Solver | <https://github.com/funksy/Mazes>

Jan '24

An application for generating and solving mazes

- Built a program using **Python** for generating and solving mazes, implementing Prim's algorithm, breadth first search, and depth first search
- Implemented a **Pygame** based visualization to illustrate the the creation and solving of a maze and to demonstrate the differences in the algorithms

RECENT PROFESSIONAL EXPERIENCE

United States Air Force | MSgt, Special Missions Flight Chief

Jul '21 - Nov '23

- Identified employee credentialing procedure oversight and resolved in 72 hours by recredentialing 138 personnel, preventing a service lapse on a \$96M contract
- Resolved a service outage affecting communications across the entire USCENTCOM theater. Led the response team of 25 to resolve the outage within 1 hour, restoring service to 32 military installations and protecting a facility valued at \$247M

Defense Intelligence Agency | MSgt, Operations Coordinator

Jun '18 - Jul '21

- Facilitated the US President and Secretary of Defense visit to London by managing logistical coordination, diplomatic clearance requirements, & collaboration with 4 additional agencies within US Embassy London, resulting in a successful visit and the promotion of US foreign policy objectives
- Oversaw the Diplomatic Clearance program, processing travel requests for 2,700 aircraft and 5,800 personnel with the Hungarian government to enable travel to and through the territory of Hungary

EDUCATION

Hack Reactor | Advanced Software Engineering Immersive Program

Nov '23 - Apr '24

- 19 week coding program, featuring **Python**, **JavaScript** and **SQL** training in an **Agile** environment. Project-based curriculum that included solo coding, pair programming, and team collaboration. Exposed to popular libraries such as **Django**, **FastAPI**, **React**, **PostgreSQL**, and **MongoDB**.

Community College of the Air Force | AS, Information Systems Technology

Feb '13

Community College of the Air Force | AS, Information Management

Jan '16