

TECHNICAL SKILLS

Programming Languages | Python 3, 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 | DOM manipulation, Websockets, React, Redux, Tailwind CSS, Bootstrap

RELEVANT PROJECTS

WebChat | Full Stack Engineer | <https://github.com/funksy/WebChat> | FastAPI, React/Redux, MongoDB, JWT

Mar '24

A websocket based chat application, integrating with an online database to persist messages

- Developed a real-time **WebSocket** chat application utilizing a **FastAPI** backend, **React/Redux** frontend, and **MongoDB** database, enabling seamless communication between users while ensuring scalability, responsiveness, and data persistence

CarCar | Full Stack Engineer | <https://github.com/funksy/CarCar> | Django, React, PostgreSQL

Feb '24

An application for managing inventory, sales and the service center at a vehicle dealership

- Collaborated with a teammate to create a dynamic web application using a microservice architecture for vehicle dealership operations
- Designed and implemented a microservice-based architecture using **Django**, **React**, and **PostgreSQL**, featuring a RESTful API with endpoints for 9 models and a Single Page Application front end, using Domain Driven Design principles for scalability and modularity

Maze Generator and Solver | Full Stack Engineer | <https://github.com/funksy/Mazes> | Python 3, Pygame

Jan '24

An application for generating and solving mazes

- Developed an application in **Python** for generating and solving mazes, implementing Prim's Algorithm, Breadth First Search, and Depth First Search
- Implemented a visualization using **Pygame** to illustrate the process of creating and solving a maze and demonstrate the differences in the algorithms used

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

Apr '24

- Coding training in JavaScript, React, SQL, and Python in an Agile environment. Project-based curriculum that included solo coding, pair programming, and team collaboration.

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

Feb '13