Payam Sadeghian

San Diego, CA

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EXPERIENCE

Software Engineer, Piper Networks, San Diego, CA - 2022 — Present

Designed, developed, and tested Client-Server Systemd services to perform critical tasks for company LCCAS devices (Limit Compliance and Collision Avoidance System). This encompassed the establishment of reverse tunnels, LTE modem initialization and management, and the processing of system updates triggered via API. Predominantly employing Python TCP sockets and multithreading.

Designed, developed, and tested a client application dedicated to constructing system updates for LCCAS devices, triggered via REST API. Leveraged the Python FastAPI framework and other asynchronous I/O modules, with deployment on an AWS EC2 Instance.

Investigated and resolved real-time system errors, validated installations, and delivered decisive leadership for the railway installation team, all within weekly time constraints and high-pressure scenarios.

Software Engineer Intern, Piper Networks, San Diego, CA - 2022 (5 months)

Developed automated system and component tests in Python and Bash for comprehensive testing and validation on company systems. Created automated software QA tests, predominantly employing Python, emphasizing sockets and multithreading. Running post-assembly QA testing for LCCAS devices.

EDUCATION

University of California, San Diego — April, 2022

- Bachelor of Science, Cognitive Science & Machine Learning | Minor: Computer Science

PROJECTS

https://payamsadeghian.com/ - Ongoing

Portfolio website that hosts case studies and previous projects. Created using HTML, CSS, Javascript, and Bootstrap. Deployed with GitHub Pages.

Portugal Greatest Distance - 2023

Inspired by a question on Reddit, I wrote a Python script to ingest a GeoJSON dataset and use the great circle formula to compute the greatest distance between any two points in Portugal.

SKILLS

Python	Bash	Linux	Client/Server	Systemd	QA
REST API	TCP Sockets	Multithreading	Git	Makefile	Ecryption