Lang Towl
Computer Engineer

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Education

B.S. in Computer Engineering concentrated in Machine Intelligence
Florida Polytechnic University
Graduation: May 2025 | GPA: 3.58

Work Experience

Front End Software Developer: Duke Energy   May 2024 ⇨ Aug 2024
- Interned with the Lighthouse department of Duke Energy building progressive web applications in Angular JS
- Collaborated with the front-end team building features into an extensive code base

Skills Applied
- Angular JS, HTML, SCSS, TypeScript, Git, & Jira task management
- Product development, project road-mapping, & source control

Student Body Vice President: Florida Polytechnic University   May 2024 ⇨ Current
- Elected to represent and advocate on behalf of the student body to university administration and industry partners
- Oversaw strategic initiatives, managed organization budgets, and met with state officials on behalf of the university

Skills Applied
- Leadership, communication, & integrity
- Project management, public speaking, & organizational skills

Projects

Software Engineer: Cloud-Based File Sharing Server   Nov 2024 ⇨ Current
- Design, implement, and evaluate a distributed file sharing system in the cloud employing a server-client architecture
- Centralized server is capable of supporting multiple concurrent clients while fulfilling upload and download file requests

Skills Applied
- Python for socket-based networking applications, TCP/UDP protocols, back-end application design
- Google Cloud Computing for application deployment and testing

Senior Capstone: Patrol Vehicle Alert System   Oct 2024 ⇨ Current
- Working with the Polk Country Sheriff's Office to develop a suite of AI-driven Deputy protection systems
- System will feature nearby gunshot detection, advancing object and weapon detection, license plate reading, & alert system

Skills Applied
- Python for digital signal processing, computer vision, & ML model development
- Product development, integrated systems, & working with sensitive data

Industry Skills

- C & C++ Programming
- Angular JS, TypeScript, S/CSS, & HTML
- Swift & SwiftUI
- Python: Socket, Threading, MatPlotLib, Pandas, & Numpy

- PCB Design & Fabrication
- Proficiency in Verilog Programming for FPGAs
- CAD (Fusion 360, Eagle CAD, SolidWorks, MatLab)
- SciKit Learn & Google Colab for ML Applications

Leadership Experience

- FPU Board of Directors Student Representative 2024 - Current
- FPU Dir. Internal Affairs 2022 -2024

- Provosts List for Academic Standing
- MCLA Div. II Lacrosse Captain 2021-2022

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