

Samuel Settie

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📁 Professional Experience

City of Pittsburgh, Department of Innovation and Performance

Digital Solutions Intern

October 2025 – Present

- Built a standalone 22-step guided-tour web application for OneStopPGH Insights after finding the hosted ArcGIS Experience Builder blocked custom JavaScript and CSS.
- Implemented keyboard-navigable tour hotspots, skip links, and descriptive alt text, tuning contrast to pass automated WCAG 2 AA checks with Pa11y and axe, and added Playwright smoke tests covering tour behavior.

Service Desk Intern

October 2025 – Present | May 2023 – Sep. 2023

- Auditing the city's mobile communications account after identifying a billing gap that left zero-usage Verizon lines active, a correction projected to save the city thousands of dollars annually.
- Provided 12 hours of on-site IT support from the city's emergency operations center during the 2026 NFL Draft, covering 9+ departments including Police, Fire, EMS, and Emergency Management alongside federal, county, and broadcast partners.

Devices Team Intern

May 2022 – Sep. 2022

- Spearheaded progress in the City Government's "Tech Refresh" program, which worked to deploy updated IT devices to nearly 2,000 employees across 17 departments.

Freelance Software & Web Developer

December 2025 – Present

Sole Proprietorship

- Design, develop, and maintain websites for small businesses as a solo full-stack developer, handling client intake, scoping, and pricing through a registered sole proprietorship.
- Built and launched a Shopify storefront for an outdoor media client, customizing theme templates and integrating merchandise, video, and social channels.

📁 Projects

LLM Differential Diagnosis Assistant

August 2025 – January 2026

Python, TypeScript, FastAPI, React, OpenRouter API

- Engineered a Large Language Model powered AI assistant to facilitate medical differential diagnosis for healthcare workers in rural Senegal with limited medical infrastructure.
- Orchestrated a multi-agent system that utilizes patient interview simulation, medical knowledge retrieval, and dynamic diagnosis generation to replicate the workflow of healthcare professionals.

Restaurant Order Management System

August 2024 – January 2025

HTML/CSS, JavaScript, Python, Flask, SQL

- Architected a restaurant ordering system using Flask and SQLAlchemy with responsive design. Features real-time order processing, kitchen management, and QR code integration for table-specific ordering.
- Implemented dynamic order tracking with JavaScript DOM manipulation to create seamless communication between front-of-house and kitchen staff through RESTful API endpoints and SQLite database operations.

🎓 Education

Bachelor of Science in Computer Science

August 2021 – December 2025

University of Pittsburgh

🧠 Skills

Languages: Python, JavaScript, HTML/CSS, Java, C, C++, SQL, TypeScript, Bash, Assembly (MIPS), Liquid

Frameworks & Technologies: React, Flask, FastAPI, Git, Shopify, Playwright, Selenium, WCAG testing

Focus Areas: Web Development, Artificial Intelligence, Software Quality Assurance, Data Structures & Algorithms