

Negein Immen

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TECHNICAL SKILLS

Languages: Python, C, C++, Java, JavaScript, HTML/CSS, Solidity, PowerShell, Perl, MATLAB, SQL

Developer Tools & Frameworks: Linux, Git, VSCode, Agile, Azure DevOps, Docker, Kubernetes, React, Node.js

PROFESSIONAL EXPERIENCE

Software Engineer Intern

June 2025 – Present

Bank of New York

Pittsburgh, PA

- Engineering an AI-driven support routing agent using ChatGPT-4 LLM, integrating with xMatters on-call REST APIs and Microsoft Teams to autonomously match employees with the correct support contact and parse troubleshooting documentation, eliminating managerial escalations and saving **hundreds of hours** in redirected communication.
- Orchestrating production readiness across Teams and interns, automating workflows via Python-based reasoning functions and dynamic API calls.
- Collaborating closely with other engineering teams to align multiple custom agents under shared integration standards, positioning the solution for company-wide deployment.
- Stack: Python, OpenAI GPT-4 API, REST API, Microsoft Graph API, Docker

DevOps Engineer Intern

May 2024 – August 2024

Westinghouse Electric Company

Cranberry, PA

- Spearheaded the transition from Subversion to Azure DevOps, automating the entire software development and release lifecycle by crafting Python, PowerShell, and Perl scripts to execute Git workflows within CI/CD pipelines, resulting in **5x** faster deployments, reduced manual effort, and streamlined Agile delivery.
- Developed a scalable validation framework for Ovation databases, integrating existing test scripts and managing dependencies like Pandas, Numpy, and Openpyxl to reduce total runtime to **5 minutes**.
- Enhanced a machine-learning error detection tool for database analytics in Databricks, improving classification accuracy and generating an estimated **\$5K** in cost savings through efficient error identification.
- Stack: Python, PowerShell, Perl, Git, Pandas, Numpy, Openpyxl, Azure DevOps, Azure Pipelines, Docker, Kubernetes

Software Engineer Intern

May 2023 – August 2023

Greenman-Pedersen, Inc.

Pittsburgh, PA

- Designed and implemented a data-integration algorithm into a 300-level-of-detail BIM 3D modeling project for the Greensburg Pump Station, using point-cloud data to save **\$12K** by avoiding external vendor services.
- Authored SOPs for Greensburg Wastewater Plant operations, optimizing workflows and ensuring compliance with operational standards by communicating with plant operators.
- Stack: Python, MATLAB, Autodesk Revit, ArcGIS Pro

SELECTED PROJECTS

Mini-Shell | C, Unix System Programming

March 2025

- Built a fully functional Unix-style shell in C, mirroring core Bash features, supporting command execution, piping (using pipe(), fork(), execvp()), I/O redirection, and conditional logic to manage parallel commands via process control and file descriptor manipulation.
- Integrated a robust execution pipeline using fork, execvp, dup2, waitpid, and user-level parsing, ensuring Unix compliance and concise lifecycle management (initialize, interpret, terminate).

Block Ballot | JavaScript, React, Solidity, MetaMask, Firebase, HTML/CSS

May 2024

- Deployed a secure decentralized voting platform on Ethereum smart contracts in Solidity, interfaced with MetaMask for user-ready wallet integration, and implemented React-based UI to allow users to cast votes transparently on-chain.
- Connected with Web3 tooling (Remix IDE/Ethers.js) to compile, test, and deploy contracts.
- Utilized Firebase as an off-chain data layer for candidate info and MetaMask-authenticated sessions, delivering seamless on-chain/off-chain synchronization and ensuring tamper-proof election mechanics.

EDUCATION

The Pennsylvania State University

Graduating December 2025

Bachelor of Science in Computer Engineering, Minor in Cybersecurity (3.98 GPA)

University Park, PA