

Negein Immen

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EDUCATION

The Pennsylvania State University

University Park, PA

B.S. in Computer Engineering, Minor in Cybersecurity

Graduation May 2026

- Cumulative GPA: 3.98
- *Relevant Coursework:* Data Structures & Algorithms, Operating System Design, Communication Networks, Computer Organization & Design, Blockchain & Web Development, Technical Writing
- *Additional Activities:* IEEE Treasurer & DEI Chair, CCSG IT Director, Engineering Ambassador, member of Assistive Technology Club and Association of Women in Computing

TECHNICAL SKILLS

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

Programs & Tools: Azure DevOps, Azure Pipelines, Linux, Visual Studio, Kubernetes, GitHub, VirtualBox, React, MATLAB, LaTeX, Microsoft Office

WORK EXPERIENCE

Westinghouse Electric Company

Cranberry, PA

DevOps Engineering Intern

May 2024 – August 2024

- Led the migration from Subversion to Azure DevOps, streamlining the Software Development and Release Process by implementing automated testing using Python, PowerShell, and Perl scripts in a CD/CD pipeline within an Agile work environment
- Developed a scalable validation framework for Ovation databases, integrating existing test scripts, managing dependencies, and reducing runtime to approximately 5 minutes
- Enhanced a machine learning-based data analytics tool to detect and classify errors in databases, resulting in an estimated **\$5,000** in cost savings by improving error detection efficiency

Greenman-Pedersen, Inc.

Pittsburgh, PA

Engineering Intern

May 2023 – August 2023

- Pioneered development of a data-integrating and analyzing algorithm into a 300 level-of-detail BIM 3D modeling project for Greensburg Pump Station using Point Cloud data, achieving **\$12,000** company expense reduction by circumventing external vendor engagement
- Developed SOPs for Greenburg Wastewater Plant, optimizing processes and ensuring manual compliance

PROJECTS

Mini-Shell | C, C++, Shell

- Built a fully functional Unix-style shell in C with support for command execution, piping, parallelism, I/O redirection, and conditional logic, mirroring core Bash behavior
- Integrated a robust execution pipeline using fork, execvp, and file descriptor manipulation

Decentralized Voting Platform | JavaScript, React, APIs, Solidity, MetaMask, HTML/CSS

- Designed and deployed a decentralized voting platform leveraging Ethereum blockchain, Solidity smart contracts, and MetaMask integration to ensure secure and transparent election data processing
- Integrated Firebase for off-chain data storage, utilizing its API to retrieve candidate information

LEADERSHIP EXPERIENCE

Institute of Electrical and Electronics Engineers (IEEE)

University Park, PA

Treasurer and former Diversity, Equity, & Inclusion (DEI) Chair

August 2023 – Present

- Manage executive responsibilities including reimbursing organizational leaders, monitoring the club's bank account, and securing external funding
- Fostered an inclusive environment by engaging with members through discussions and organized Penn State's 2024 Equity Summit through the engineering Diversity Roundtable

The Pennsylvania State University

University Park, PA

Cybersecurity & Data Privacy Researcher

August 2024 – June 2024

- Led 7-member team in developing educational video-series for introductory computer science students
- Published research paper examining the impact of these educational videos on 112 Programming Principles: C++ students, highlighting the potential for augmenting learning outcomes in coding courses