

Jon Doe

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EDUCATION

Bachelor of Science in Computer Engineering

Penn State University | Pittsburgh, PA

Minor in Mathematics

December 2026

GPA: 3.78

Master of Science in Computer Engineering

Penn State University | Pittsburgh, PA

December 2027

SKILLS

Programming Languages: Java, Python, C/C++, Go, JavaScript/TypeScript, MATLAB

Technologies: RESTful APIs, Embedded Systems, Linux, SQL, MariaDB, Docker, Typst

Tools: Git, VS Code, JetBrains IDEs, Make, Arduino IDE, Postman, VirtualBox

PROJECTS

Smart Campus Navigation App

React Native, Node.js, PostgreSQL, REST APIs

January 2025 - April 2025

[gh.com/campus-nav](#)

- Developed a mobile application to help students navigate campus buildings using real-time location data
- Designed RESTful backend services and optimized database queries to support hundreds of concurrent users

Embedded Weather Station

C, Arduino, Sensors, UART/I2C

September 2024 - December 2024

[gh.com/weather-station](#)

- Built an embedded weather monitoring system collecting temperature, humidity, and pressure data
- Implemented low-power firmware and serial communication for reliable data logging

Distributed Chat Application

Go, TCP/IP, Concurrency

June 2024 - Present

[gh.com/go-chat](#)

- Implemented a concurrent client-server chat system using Go routines and TCP sockets
- Focused on fault tolerance, message ordering, and clean protocol design

EXPERIENCE

Computer Engineering Teaching Assistant

Penn State University

August 2024 - Present

Pittsburgh, PA

- Assisted with instruction for core computer engineering courses covering data structures and digital logic
- Held weekly office hours, providing one-on-one academic support to over 40 students per semester
- Supported grading, exam preparation, and lab troubleshooting in collaboration with faculty

Software Engineering Intern

Local Tech Startup

May 2025 - August 2025

Pittsburgh, PA

- Developed backend features for a web-based analytics platform using Python and SQL
- Improved system performance by profiling and optimizing database queries
- Collaborated in an agile team environment using Git and issue tracking tools

EXTRACURRICULAR ACTIVITIES

Vice President, Tau Beta Pi Engineering Honor Society

October 2024 - Present

Treasurer, IEEE Penn State Student Chapter

August 2023 - Present

Member, Penn State Programming Club

September 2023 - Present

Participant, ACM Programming Contest

October 2023, October 2024

ACHIEVEMENTS

Dean's List, College of Engineering

August 2023 - Present

Undergraduate Research Grant Recipient

May 2024

Penn State Honors Program Scholarship

June 2023