

Eddie Ripple

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EDUCATION

The Pennsylvania State University

- BS in Computer Science 2022-2026 (Expected) GPA: 3.98
Minors in Cybersecurity and Computer Engineering
- MS in Software Engineering 2026-2028 (Expected)

Relevant Coursework

Database Management, Systems Programming, Computer Architecture, Deep Learning, Data Structures and Algorithms, Computer Vision, Web Apps with OOP, Intermediate C++

TECHNICAL SKILLS

Languages / Frameworks: Python, Java, C/C++, Verilog, TypeScript, React

Data/Databases: SQL, PostgreSQL, MySQL, SQLite

RELEVANT EXPERIENCE

EdNotes.wiki

Fall 2025

- Developed a full-stack web application serving as both a personal portfolio and an interactive platform for publishing computing articles and demonstrations
 - Built frontend with **React + TypeScript** and backend with **Java (Spring Boot) + PostgreSQL** implementing RESTful APIs
 - Containerized backend with **Docker** and deployed to a **DigitalOcean droplet**

IT Auditor Intern: ATI - Pittsburgh, PA

Summer 2025

- Built a data analysis tool to identify duplicate invoices and erroneous payments, enabling recovery of ~\$40,000
 - Implemented tests with **Pandas** and **SQL** to flag potential duplicates
 - Designed a user interface using **HTML** and **CSS**, documented code, and wrote a user manual to support adoption and ease of use

Embedded Systems Fan Control Project

Spring 2024

- Designed and implemented a fan control system using both an **FPGA + Verilog** and an **Arduino Microcontroller + Embedded C** for comparative evaluation
 - Displayed fan speed in RPS using OLED and 7-segment displays
 - Analyzed tradeoffs between FPGA-based and microcontroller-based approaches
 - Presented findings and Penn State New Kensington Research Expo

EXTRACURRICULARS

Tau Beta Pi

08/2024 - Present

University Park, PA

Volunteer PowerPoint Creator

06/2022 - Present

Central Presbyterian Church, Tarentum, PA

Penn State New Kensington Honors Program

08/2022 - 05/2024