

Eddie Ripple

Natrona Heights, PA

edrip222@gmail.com

724 - 448 - 9767

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 (CMPSC 431W), Systems Programming (CMPSC 311), Computer Architecture (CMPEN 431, *In Progress*) Deep Learning Algorithms (MATH 452), Data Structures and Algorithms (CMPSC 465)

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, Verilog

Data/Databases: SQL, MySQL, SQLite

Software/Misc: Git/GitHub, Visual Studio Code

RELEVANT EXPERIENCE

IT Auditor Intern: *ATI - Pittsburgh, PA*

Summer 2025

- Develop a Python tool with Pandas and SQL to detect duplicate invoices
 - Create an interface, document code, and write a manual for ease of use
 - Identify erroneous payments to enable recovery of ~\$40,000

Course Scheduler Project (Java)

Summer 2024

- Create a desktop application to manage college course enrollment
 - Use the Swing toolkit to design a GUI
 - Write SQL prepared statements to query an embedded database

Embedded Systems Fan Control Project (Verilog and Arduino)

Spring 2024

- Implement a fan control system using an FPGA and a microcontroller
 - Display fan speed in RPS using OLED and 7-segment displays
 - Compare and contrast FPGA and microcontroller approaches
 - Present findings and Penn State New Kensington Research Expo

EXTRACURRICULARS

Tau Beta Pi

University Park, PA

08/2024 - Present

Volunteer PowerPoint Creator

Central Presbyterian Church, Tarentum, PA

06/2022 - Present

Penn State New Kensington Honors Program

08/2022 - 05/2024

- Engage in academic enrichment, Attend cultural events, Participate in research expos