

Education

2023 - 2027 University of Massachusetts Amherst, **B.S. Computer Science, B.S. Physics**

- **GPA: 3.6/4**
- Relevant Coursework: Data Structures in **Java** and **Python**, **C/C++** Programming, **Python** Programming, Programming Methodology with **TypeScript**, Reasoning Under Uncertainty, Computer Systems Principles, Introduction to Computation, Computational Physics

2018 - 2023 Concord Carlisle Regional High School

- Relevant Coursework: AP Computer Science, **Java** Programming, **Python** Programming

Certifications - <https://www.credly.com/users/isaac-pelenur>

Basics of Quantum Information - IBM

- Quantum Computation, Quantum Information, Quantum Theory

IBM Quantum Challenge 2024 Achievement - IBM

- **Python**, Qiskit 1.x, Qiskit Patterns, Quantum Computing

Projects

FileTypeFuzzer - <https://github.com/xoth42/fileTypeFuzzer>

- **Python** package for generating file mutations and testing files to search for exploitable mutations

DriveBase - <https://github.com/CCHS-FIRST-Robotics/2023DriveBase>

- **Java** code for robotics team robot

Reaper - <https://github.com/xoth42/utilities>

- **Python** script to kill zombie processes

Cpnt - <https://github.com/xoth42/cpnt>

- **C++** color printed messages from terminal

MagCalc - <https://github.com/xoth42/MagCalc>

- **Python** calculator for variables in regard to a railgun-motor circuit

Skills

- Languages: Java, Python, C, C++, TypeScript
- Frameworks: Jest, Node, React, NumPy, Pandas, Matplotlib
- Hackathons: UMass Lowell GenCyber CTF 2022 (First place), Hack UMass 2023, minutemanCTF
- Command Line: Git, Bash, Zsh, PowerShell, SSH
- Linux Server Setup and Administration
- Basic Quantum Computing, Qiskit
- Basic Cybersecurity and Penetration Testing. Proficient with Onshape CAD
- Conversational Spanish, Fluent English

Extracurricular Involvement

October 2022 - February 2023 **Robotics Team**

- Built and implemented **Java** software for our team's robot
- Trained other students how to use the robotics **API**
- Derived mathematical representations of robot's movement to program **automation**

Isaac Pelenur

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Accomplished student with a strong foundation in computer science and physics, currently pursuing a Bachelor's degree in both fields. Proficient in a range of programming languages and technologies, including Java, Python, TypeScript, and C++. Gained hands-on experience with robotics and automation through extracurricular involvement. Familiar with quantum computing concepts and have completed certifications in the field. Strong interest in learning about full-stack quantum computing.