

Patrick Moran

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Education

West Chester University of Pennsylvania
Bachelor of Science in Computer Science

Dec 2022
GPA: 3.85/4.00

Honors: Summa cum laude

Notable Coursework: Software Engineering, Software Security, Computer Security, Object-Oriented Programming, Data Structures and Algorithms, Data Communications and Networking, Database Management Systems, User Interfaces, Digital Image Processing, Web Design and Development.

Experience

Production Quality Controller
Acero Precision

Mar 2021 – Mar 2022
West Chester, PA

- Worked with management to develop specific and measurable goals for a machining department that manufactures medical, analytical, and industrial products.
- Performed internal audits of the ISO 9001 and 13485 Quality Management System to ensure compliance and identify opportunities for improvement.
- Created inspection processes, standard operating procedures, and work instructions in accordance with quality regulations.
- Trained employees on inspection processes and the company's database software.
- Acted on behalf of the customer to maintain the accuracy and timely delivery of products.
- Received recognition for fostering positive relationships with company stakeholders through effective communication with clients and vendors.

Projects

Portfolio Website (paktric.com)

- Created a web portfolio where I can showcase my software projects and interests.
- Designed with Figma, built with HTML and CSS. Used Linux cPanel for website management.

Radio Stream Recorder

- Wrote a Java program to stream data from a radio station's website and save data as an MP3.
- Program can be executed with a Linux cron job or with Windows Task Scheduler.

Password Generator

- Created a program to generate a unique and secure password using Java's security package.
- Generates a random password of user-defined length or default length.

iOS Comic Viewer App

- Designed and built an iOS application that allows the user to browse xkcd comics.
- Comic data is obtained using an API that returns the requested information in JSON formatting.

Technical Skills

Languages: Java, SQL, Haskell, Python, C, x86 ASM, HTML, CSS, JavaScript, Swift

Frameworks / Libraries: React, OpenCV, NumPy, Matplotlib, pwntools

Developer Tools: Git, GitHub, IntelliJ, Eclipse, VS Code, MS SQL Server, Wireshark, Windows, Linux

Interests: Software Security, Penetration Testing, Software Development, Functional Programming