Roman F. Rossi

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EDUCATION

		RELEVANT COURSEWORK	

James Madison University Fall 2025
B.S. in Computer Science

Northern Virginia Community College 2018-2022

RELEVANT COURSEWORK

Algorithms & Data Structures	Cyber Tech Systems
Software Egineering	Adv Web Tech &
Java Programming	Multimedia Software
Discrete Structures/Mathematics	IT Database Design &
C++ Programming	SQL
Python Programming	Database Management

INTERNSHIP

BlueHalo – Arlington, VA – May-Aug 2023

- Conducted comprehensive inventory management across multiple high-security offices in the DMV area, utilizing KACE software to track and catalog hundreds of devices.
- Conducted secure data wiping procedures on numerous devices using custom software, ensuring complete data removal in compliance with security protocols.
- Configured and reimaged computers for various purposes, including resale and redeployment, demonstrating adaptability in meeting organizational needs.
- Collaborated with cross-functional teams to facilitate the sale and disposition of outdated hardware, contributing to resource optimization initiatives.
- Gained exposure to cutting-edge technology while working in secure facilities under strict confidentiality agreements, demonstrating ability to adhere to high-security protocols.

SKILLS

Programming: Multi-threaded Programming, Java, Python, C++, SQL, JavaScript, HTML/CSS, Batch

Software: Eclipse, NetBeans, Visual Studio, jGRASP, Oracle APEX, IDLE (Python)

Systems PC HW and OS: general and specific diagnostics, troubleshooting, building computer hardware systems, and small electronics; Arduino, raspberry pi; schematics, programming

Cyber Security: Hardened Systems running Windows, Linux, Windows Server as well as experience with offensive security tools. Familiar with Oracle Virtual Box, VMWare, Wireshark, Nmap, Cisco Packet Tracer

Multimedia: Adobe Dreamweaver, Photoshop, Premiere, OBS, and more

Methodologies: SCRUM / Agile Development

PROJECTS / RESEARCH

Audio Transcription Tool **Mar 2024**
- Developed a multi-threaded Python script with GUI for efficient audio-to-text conversion.
- Implemented speech recognition libraries, multi-threading, and progress tracking for improved user experience.

Encrypted Text Editor **April 2024**
- Designed and implemented a Java-based text editor with AES encryption and secure file handling.
- Created an intuitive GUI for creating, editing, and managing encrypted text files.

MindLoop Personal Data Tracker **May 2024**
- Engineered a comprehensive Java application for personal data tracking and analysis with advanced encryption.
- Implemented a modular architecture with 24 classes across 5 packages for scalability and created a custom-styled GUI.

CS 240 Java Programming Project (Multiset) **Feb 2023**
- Utilized generics to enhance the flexibility and type safety of a Java project, showcasing a deep understanding of Java's powerful type system.
- Employed interfaces and abstract classes to create a highly modular and decoupled project structure, resulting in code that was easier to maintain and extend.
- Created a new datatype called pair with the use of generics.
- Designed and implemented a custom data structure, incorporating an aggregation of the pair type and a custom iterator, resulting in a more efficient and powerful data type that demonstrated advanced programming skills.

Java Image Processing Project **Mar 2022**
- Developed graphical user interface components using Java to create a user-friendly image processing application.
- Implemented file input/output functionality to allow for loading and saving of images in various formats, enhancing the versatility of the program.
- Devised pixel manipulation logic utilizing three integer values to enable advanced image processing techniques.
- Employed coordinate manipulation techniques in Java to accurately display and manipulate images.