Michael **Rivnak**

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Education

Wentworth Institute of Technology
Sept 2016 - December 2020
Bachelor of Science in Computer Science

Relevant Coursework
Data Structures, Algorithms, Databases, Parallel Computing, Software Engineering, Web Development

Experience

RTOS Researcher at Wentworth Institute of Technology
Jan 2020 – Apr 2020 | Boston, MA
• Collected relevant information on the applicability of Real-Time Operating Systems to a collegiate operating systems curriculum
• Analyzed and understood the strengths and weaknesses of using a RTOS over a traditional OS in various circumstances
• Demonstrated high-level written and oral communication skills in a published paper and conference presentation on the topic

Content Specialist Intern at Ascend Learning
May 2019 – Aug 2019 | Burlington, MA
• Assembled applications to automate and optimize workflows
• Integrated applications with REST API endpoints within a content management system
• Designed Application Programming Interfaces (APIs) to facilitate creation of an extensible application suite
• Maintained proper software documentation and distribution to ensure ease of use

Projects

Game Boy Emulator
Stack: C++, CMake
• Leveraged existing documentation to create a software emulator for the Nintendo Game Boy CPU
• Implemented register, memory, and state management systems

Web Forum
Stack: Python, Django
• Utilized Django framework for flexible full-stack development
• Leveraged SQLite database for efficient data storage and organization
• Integrated Bootstrap components for a modern UI within Jinja templates for incredible flexibility

RVPKG-RS
Stack: Rust
• Utilized binary-tree embedded database for minimal runtime dependencies
• Analyzed product requirements for both ease of development and simplicity of use

Skills

Programming
C++, Go, Java, JavaScript, Python, Rust, TypeScript

Frameworks
Django, Electron, React, Vue.js

Tools and Technical
Git, Version Control, Linux/Unix, Shell Scripting, Object-Oriented Programming, Functional Programming

Professional
Agile, Scrum, Kanban