

Ryan Clarke

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EDUCATION

- **Virginia Tech** Blacksburg, VA
Bachelor of Science in Computer Engineering; Minor in Computer Science
Graduated: May 2024

EXPERIENCE

- **IBM** Reston, VA
Software Engineer Co-op Sep 2024 - Present
 - Developing a hybrid cloud application on an agile development team.
 - Shadowing a cloud engineer by writing bash scripts using AWS Systems Manager and AWS EC2.**Software Engineer Intern** May 2024 - Aug 2024
 - Worked on an agile development team to develop a full-stack serverless AWS application that highlights multi-cloud sprawl issues and reduces cloud costs by up to 42%.
 - Presented application and live demonstration to 60+ person audience including multiple executives.
- **Thorben Consulting** Remote
Intern Jun 2023 - Aug 2023
 - Used the AWS Management Console to develop, debug, and deploy cloud-based applications that follow AWS best practices.

CERTIFICATIONS

- **AWS Certified Developer - Associate**: Issued: Aug 2023, Expires: Aug 2026
- **AWS Certified Cloud Practitioner**: Issued: Aug 2023, Expires: Aug 2026

PROJECTS

- **SCADA System Development** Virginia Tech
Linux, PostgreSQL, Python, C++ Sep 2023 - May 2024
 - Created a SCADA prototype to integrate launch pad facilities for the Virginia Spaceport Authority (VSA), providing an interface that efficiently collects data to a central server database and GUI.
 - Worked with four other students to develop prototype and present at the Virginia Tech Major Design Experience Expo to VSA CEO and staff, who plans to implement prototype at the Mid-Atlantic Regional Spaceport.
- **MIPS Simulator** Virginia Tech
C++, Qt Jan 2024 - May 2024
 - Developed and implemented a MIPS instruction-level simulator, supporting the execution of a defined subset of MIPS assembly code, adhering to MIPS-I architecture specifications.
 - Engineered a complete virtual machine in C++ to emulate MIPS CPU operations, including memory initialization, instruction parsing, and register management for accurate program execution.
 - Created an interactive read-evaluate-print loop interface and IDE to facilitate user-friendly interaction and debugging of any MIPS assembly program.
- **Personal Website** Personal Project
HTML, CSS, Javascript Dec 2023 - Jan 2024
 - Developed a personal website to showcase my experience and background, hosted on Github Pages.
- **FlexFlow iOS Fitness App** Virginia Tech
Swift Oct 2023 - Dec 2023
 - Created an all-in-one fitness iOS app allowing users to log workouts, meals and exercises, and view nearby facilities and current weather conditions, achieving the highest grade in the course with the smallest group in the course.
 - Gained experience with UI design, JSON database operations, and API fetching with HTTP requests.

SKILLS

- Python, Java, C++, C, PostgreSQL, Amazon Web Services (AWS), Swift, Linux, Javascript, HTML, CSS, React, Qt, Git