

# Ryan Clarke

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## Education

### Bachelors of Science, Computer Engineering

Virginia Tech, Blacksburg, VA

Minor in Computer Science

Expected Graduation: May 2024

Major: Networking & Cybersecurity

**Currently Enrolled:** Intro to AI, Applied Software Design, iOS Development, Network Application Design

**Relevant Coursework:** Data Structures & Algorithms, Software Design & Data Structures, Embedded Systems, Computer Networking, Computer Architecture, Computational Engineering

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## Experience

Intern, Thorben Consulting LLC

June 2023 - Aug 2023

- Used the AWS Management Console to develop, debug, and deploy cloud-based applications that follow AWS best practices
  - Achieved AWS Certifications through the AWS Partner Network
  - Gained experience working in an Agile development team
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## Certifications

AWS Certified Developer - Associate

Issued: Aug 2023, Expires: Aug 2026

AWS Certified Cloud Practitioner

Issued: June 2023, Expires: June 2026

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## Projects

SCADA System Development, Virginia Tech

Sep 2023 - Present

- Creating the overarching architecture for all Mid-Atlantic Regional Spaceport facilities
- Developing a common interface for independent control systems to output to and provide the full visibility into all systems at all sites, including system architecture, networking, and GUI development for data visibility and manipulation

FlexFlow iOS Fitness App, Virginia Tech

Fall 2023

- Created an iOS app in **Swift** allowing users to log workouts, meals, exercises and view nearby facilities and current weather conditions
- Gained experience with UI design, JSON database operations, API fetching with HTTP requests

ECE Surfers Minigame, Virginia Tech

Fall 2022

- Implemented a game similar to Chrome's Dinosaur Game onto an MSP432 microcontroller
- Created HAL and worked with Timers, Buttons and Joystick in **C** to receive a 100%

COVID-19 Visualization Project, Virginia Tech

Spring 2021

Worked with 2 other students to read and display COVID-19 data sorted by State and Race/Ethnicity

- Designed the back-end data structures and implemented the front-end data visualization GUI
  - Read data from a CSV file and sorted it using Linked Lists in **Java**
  - Achieved the highest possible grade in the class
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## Extracurriculars

Member of **Beta Theta Pi** - Alpha Phi Chapter

- Attending weekly meetings, participating in philanthropies, recruiting potential new members
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**Skills:** Python, Java, C++, C, Swift, Amazon Web Services (AWS), Linux, HTML, CSS, Git, REST APIs, JUnit Testing, MATLAB, Verilog, LTSpice, Microcontrollers, Solidworks, Microsoft 365

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LinkedIn: <https://www.linkedin.com/in/ryan-clarke-0/>

GitHub: <https://github.com/ryanc01>