

Ethan Tompkins

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EDUCATION

Clemson University, Clemson, SC

May 2023

- **B.S Computer Science**
- **Relevant Coursework:** Machine Learning, Artificial Intelligence, Data Structures and Algorithms, Software Engineering, Operating Systems, Network Programming, Database Management Systems

WORK EXPERIENCE

Software Engineer, Itron

May 2023 - Present

- Develop Full Stack applications using C#, MS-SQL, and ASP.NET MVC for testing circuit boards and residential gas meters in a high volume manufacturing environment.
- Create automated soldering application using Python on Raspberry Pi that includes user control, data recording, and user interfaces.
- Implement data storage and retrieval by designing and implementing SQL tables, views, and triggers.

Machine Learning Researcher, Clemson University

December 2021 - May 2023

- Developer on ColorNet, a machine learning solution developed with PyTorch for real-time targeted color correction in live video feeds.
- Researched various machine learning methods to optimize real-time video processing, increasing processing speed over 80% to reach 30 FPS.
- Implemented novel algorithms and tested them on large-scale datasets.
- Co-Authored research papers accepted by the Technical Association of the Graphic Arts (TAGA).

Software Engineer Intern, Boeing

August 2022 - December 2022

- Created and programmed hardware device using Python on Raspberry Pi for Cold Storage Volume.
- Integrated a microcontroller with a temperature sensor and compressor to meet temperature specifications.
- Developed custom UI web interface with JavaScript and Node.js for remote hardware control and monitoring.

Software Engineer Intern, Knack Works

May 2022 - August 2022

- Developed a Kubernetes visualizer application using Vue.js, React, and Apollo GraphQL.
- Extracted data from Kubernetes API and effectively restructured it into a custom REST API to optimize application performance and functionality.
- Wrote comprehensive unit and feature tests using Python Cucumber and Gherkin, significantly reducing bugs and enhancing system stability.

SKILLS

- **Languages:** Python, C#, JavaScript, C++, Rust, React, SQL
- **Frameworks/Technologies:** Vue, React, Node.js, Express.js, .NET, ASP.net, Postman, MongoDB