

# RILEY CLEAVENGER

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## EDUCATION

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University of Florida - Gainesville, FL

December 2024

Bachelor of Science in Computer Engineering

GPA 3.48/4.00

**Relevant Coursework:** Data Structures, Software Engineering, SWE Enterprise Practices, Networking, Machine Learning, Microprocessors, OS, Computer Organization, Digital Logic, Digital Design, Circuits, Signals and Systems

## TECHNICAL SKILLS

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**Programming Languages:** Python, Go, C, C++, C#, Java, JavaScript, TypeScript, SQL, Rust, Verilog, VHDL

**Technologies:** React, Angular, HTML/CSS, Docker, ExpressJS, Flask, Google Cloud, Azure, Firebase, Git, Linux

## PROFESSIONAL WORK EXPERIENCE

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Intel Corporation, Hillsboro OR

May 2024 – August 2024

Software Engineering Intern

- Slotted to develop key automation functionality that assists in producing and managing key manufacturing data

Texas Instruments, Dallas TX

May 2023 – August 2023

Software Engineering Intern

- Developed a GUI with C# to interact with power supply sequencing devices used in rack servers, leveraging the PMBus protocol and I<sup>2</sup>C communication for writing commands to the devices' registers
- Pioneered critical advancements within legacy software, including an interactive log and robust error handling, which led to a 70% reduction of senior engineer involvement in customer interactions on end-to-end forums

GE Appliances, Louisville KY

January 2022 – May 2022

Technology Engineering Co-op

- Designed PCB schematics and layouts in Cadence, including an official board that was deployed in a product
- Modeled, simulated, and physically tested the complete circuit schematic for a new universal hardware testing box for the quality assurance team, decreasing QA testing procedure times by over 50%

## TECHNICAL PROJECTS

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The Modern Jukebox

August 2023 – Present

- Developed a music streaming service platform within the React framework that employs the Shazam API and Spotify API to queue selected songs to a hardware device running custom Python, C++, and OpenCV scripts

Gator Path Tracker

August 2023 – January 2024

- Hosted a frontend service, designed using the Angular framework, on Google's Firebase platform to automate balanced schedule planning for students across all degree programs at the University of Florida
- Utilized Python scripts to web scrape three years of student-produced data regarding difficulty of UF classes
- Created a custom web scraping Docker API on Google Cloud Run to return new class data when posted by UF

MealDealz

January 2023 – August 2023

- Collaborated on a team using agile workflow to deploy an app that streamlines cooking and grocery shopping
- Developed a custom RESTful API in Golang which concurrently performs basic computation as well as utilizes essential HTTP methods to interface with a Microsoft Azure-hosted SQL server and database
- Wrote Python scripts to run within a virtual machine and periodically scrape weekly grocery sales from various chain grocery store websites with Selenium and BeautifulSoup, then store the gathered data in a SQL server

## LEADERSHIP AND INVOLVEMENT

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Theta Tau Professional Engineering Organization

January 2021 – Present

*Vice President of PNM Class, Activities Coordinator, PNM Representative*

- Spearheaded professional development event planning among fellow new members to drive engagement
- Organized and executed team-building activities for 100+ people to improve member relations
- Mentored new members to assist their transition into the organization's professional environment

Assistant Director of UF Engineers' Week Industry Relations

August 2021 – December 2021

- Assisted in the cohesive planning of UF's annual Engineers' Week, welcoming over 800 attendees