

Christian 'Chris' Morgado

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EDUCATION:

Rochester Institute of Technology - Software Engineering B.S.

Expected Graduation: May 2027

- Minor in Computer Engineering & Quantum Information Science and Technology
- Overall GPA: 3.47/4.0
- Honors: RIT Presidential Scholar, RIT Dean's List

SKILLS:

Programming: C++, Java, Kotlin, Python, C, Assembly, JavaScript, TypeScript, SQL, VHDL, HTML / CSS

Tools: MySQL, PostgreSQL, CATIA/CAD, NextJS, Spring Boot, React.js, GitHub, MATLAB, Power BI, Office 365 Tools

EXPERIENCE:

RIT Academic Success Center

Rochester, NY

Supplemental Instruction (SI) Program Assistant

Dec. 2024 — Current

- Coordinating **administrative operations** such as schedules, logistics, and training for **50+ SI Leaders** in the SI program.
- Leading weekly training, reviewing SI session plans, and acting as a mentor figure for current SI Leaders.

Honda Development and Manufacturing of America

Marysville, OH

In-Vehicle Infotainment (IVI) Design Group - Software Engineering Co-op

May. 2025 — Aug. 2025

- **Spearheaded the design and development** of a multi-tool **Android** app from the ground up to facilitate structured data collection, now currently being used across **multiple departments** and is currently in the process of being **patented**.
- Involved in the modernization of data storage by migrating from Excel to a **PostgreSQL** backend integrated with **Jira**, **reducing manual data input by 90%**.
- Optimized data acquisition methods for 3 test procedures, **increasing test coverage** and improving data reliability.

Honda Development and Manufacturing of America

Marysville, OH

In-Vehicle Infotainment (IVI) Testing Group - Software Engineering Co-op

Aug. 2024 — Dec. 2024

- Implemented a **video stitching program** using **OpenCV-Python** and a **PyQt frontend** to combine multiple test drive recordings into a single video with customizable layouts, **eliminating costly third-party solutions**.
- Built a **Wi-Fi-based protocol layer** to interface the app with in-house tools (e.g., **CAN loggers**, dark current monitors), enabling remote setup and data acquisition, **significantly reducing test time for multiple procedures**.

RIT Academic Success Center

Rochester, NY

SI Leader

Dec. 2022 — May 2024

- Facilitated 2 weekly study sessions for a **two-course Python & Java programming sequence** that delves into computational problem solving, covering data structures and algorithms.
- Effectively coordinated **additional monthly bonus sessions** that garnered **3x the attendance** compared to standard sessions.

PROJECTS:

Irrig ~ (Personal Project)

Tools: C++, Arduino Language, PlatformIO

- Working on **firmware** for a portable **automated irrigation system** to maintain potted plants with minimal user input.
- Implementing a **Bluetooth Low Energy protocol layer** on an **ESP-32 microcontroller** to enable connectivity with **Android** and **iOS** apps for real-time monitoring and control.

DegreeMap ~ (Personal Project)

Tools: Java, Spring Boot, SQL, TypeScript, Next.js, Docker

- Created a **full-stack web application** aimed at helping students organize and track their academic courses.
- Implemented **15+ RESTful APIs** built using **Spring Boot with JPA** to enable dynamic data exchange between the frontend and a **MySQL** database hosted locally in a **Docker** container.
- Built a **Next.js** frontend, using **dynamic routing and auth context** to support user accounts.

Society of Software Engineers Website Rebuild (sse.rit.edu) ~ (Club Project)

Tools: TypeScript, Next.js, TailwindCSS

- Directed a team of **7 developers** as the **Front-end Team Lead** to revamp the front-end portion of the SSE website.
- Built responsive front-end components with **Next.js** and **TailwindCSS**, displaying dynamic data from **backend APIs**.
- Utilized **GitHub Projects** to manage **Agile** sprints, track progress, and maintain structured development workflows.

EXTRACURRICULARS:

RITGraph, SIGGRAPH Student Chapter ~ Secretary

Aug. 2025 — Current

- Developing a **Next.js frontend web application** to showcase student-created computational art to increase engagement.
- Delivering talks on **3D graphics concepts**, including shaders and rendering techniques, to engage and educate club members.

RIT Electric Vehicle Team ~ Firmware Team Member

Aug. 2025 — Current

Society of Software Engineers ~ Front-end Team Lead, Outreach Lead

Apr. 2023 — Sep. 2024

Computer Science Community ~ Social Pillar Head

Aug. 2023 — May 2024