Justin Manion

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Systems-minded computer science student with proven leadership experience and proficiency building applications that span front-end interfaces, backend logic, and relational databases. Seeking a full-time software engineering role that starts in Summer 2026.

EDUCATION AND HONORS

Rensselaer Polytechnic Institute   **Troy, NY**
Bachelor of Science in Computer Science   *Expected May 2026*
GPA: 3.27 / 4.0
Dean's Honor List: Spring 2025, Fall 2025
Extracurricular Activities: Lambda Chi Alpha (Secretary, Webmaster, Director of Recruitment Logistics)

Hudson Valley Community College   **Troy, NY**
Associate of Science in Computer Information Systems   *May 2024*
GPA: 3.94 / 4.0

PROFESSIONAL EXPERIENCE

Submitty (Rensselaer Center for Open Source)   **Troy, NY**
Team Lead   *September 2025 - Present*
- Leads design discussions, code reviews, and standups to coordinate contributor progress.
- Onboards new contributors by delivering presentations and providing one-on-one mentorship.

Open Source Contributor   *January 2025 - Present (Full-Time Summer 2025)*
- Migrated the notifications interface from Twig to Vue, enabling reload-free interactions while improving maintainability.
- Introduced a unified notifications feed to the home page that aggregates user notifications across multiple course databases.
- Developed an interactive text editor using PHP, Twig, and JavaScript that enables instructors to modify their configurations directly on the site, eliminating the need to re-upload files for every change.

Stewart's Shops   **Saratoga, NY**
Information Technology Intern   *May 2024 - August 2024*
- Delivered on-site and remote technical support by troubleshooting and repairing register, ATM, and networking equipment.
- Collaborated with technicians to prepare 10% of all shops for a new POS rollout, streamlining installation.

Price Chopper Supermarket   **Mechanicville, NY**
Shift Supervisor   *June 2020 - October 2024*
- Managed teams, scheduling, and operations in a high-volume environment.

PROJECTS

CAPY Web UI
- Building an all-in-one React/TypeScript club management interface with emphasis on a distinct and intuitive user experience.
- Establishing a modular, component-based architecture and scalable routing system to support long-term extensibility.

Speed Roulette   speedroulette.io | **GitHub:** speed-roulette
- Designed a dynamic UI using React/TypeScript to support fast-paced gameplay, responsive scaling, and theme switching.
- Abstracted core game logic and PostgreSQL operations into a Go backend with Redis-backed middleware authentication.
- Implemented an extensive CI/CD pipeline with linters, formatters, Cypress E2E tests, and unit tests.

CChat   cchat.fun | **GitHub:** cchat
- Created a C++ server using POSIX threads and TCP sockets to support real-time updates and concurrent client connections.
- Built a native GUI client (Qt) and a web client (React/TypeScript) that interact with the server through a shared protocol.

RPI Principles of Software Course Website Redesign
- Overhauled the site's UI, improving interactivity, accessibility, responsiveness, and scaling for 200+ students each term.
- Streamlined maintainer processes by establishing a Git-based workflow and creating a reusable template of the user interface.

TECHNICAL SKILLS

Languages: C, C++, Java, Python, Go, PHP, SQL, JavaScript, TypeScript, Twig, HTML, CSS
Frameworks & Tools: React, Vue, Vite, Tailwind CSS, Cypress, Docker, PostgreSQL, Redis, Nginx
Programs & Applications: Git, GitHub, DigitalOcean, AWS, Linux