Kieran Stewart

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OBJECTIVE: Seeking a software engineering co-op using strong programming skills in C, C++, SQL, Java, Python and others.

EDUCATION
Rochester Institute of Technology (RIT) Rochester, NY
Bachelor of Science, Software Engineering **GPA: 3.48** Expected Graduation May 2028
*Related Courses***:** Software Development, Data Structures, Problem Solving, Engineering of Software Subsystems, Software Engineering, Software Processes and Project Management, Engineering of Web Based Software Systems, Engineering of Concurrent Systems, Human Centered Requirements and Design, Digital Electronics, Design and Drawing for Production, Principles of Engineering, Engineering Design and Development, Computer Integrated Manufacturing, Cyber Defense Techniques.

SKILLS
Languages: Java, Python, C++, C, C#, HTML, CSS, JavaScript, SQL, UML, BASH
Operating Systems: Linux/Unix, Microsoft Windows, MacOS
Frameworks: React, Angular, Svelte

EXPERIENCE
DHI Group Inc. Security Team Intern *Online / Denver, CO Intern 06/02/2025 - 07/25/2025*
- Developed a Retrieval Augmented Generation (RAG) system for internal security team using OpenAI's API and Qdrant, enabling secure, auto filling of security questionnaires.
- Presented the tool to senior leadership, demonstrating its capabilities and answering technical questions to support adoption of the tool.

RIT House of General Science Treasurer Rochester, NY *Treasurer 08/20/2024 – 05/10/2025*
- Organized and lead meetings with the members and committee heads.
- Managed Interactions with the greater RIT organization
- Managed funds for a variety of projects and events

Town of Ithaca Department of Public Works Ithaca, NY *Summer Worker 07/05/2022 –* 08/12/2022
- Worked with a team to upkeep town of Ithaca properties
- Worked actively to meet deadlines and finish projects

PROJECTS
Brakmir Dungeon Crawler (Game)*,* Academic / Personal Project
January 2024
- Created a dungeon crawling game from scratch using Java and JavaFX
- Worked with a team of 4 over the course of a semester
- Used gang of four design patterns and design principles
- Created and presented complete and clear design documentation at each step in development

Kubernetes Cluster*,* Personal Project
January 2024
- Set up a cluster system in an environment with an air gap using K3s on Debian.
- Worked in a two person team, dividing tasks and doing troubleshooting.
- Independently learned how to set up the system, without any external guidance.
- Encountered and solved issues that had little to no documentation online.

AI Questionnaire Autofill System, *DHI Security Project*
August 2025
◆ Set up an AI RAG system using Qdrant and OpenAI enterprise.
◆ Automated vendor security form completion using AI with easily updatable information.
◆ Created a command line interface as well as a graphical interface.
◆ Wrote extensive and complete documentation to support extensibility and easy use of the tool.

Embedded Systems **MIDI Music Player**, *Academic Project*
Spring 2025
◆ Created a MIDI file player on a STM Microelectronics board, programmed in C.
◆ Handled inputs and outputs, using interrupts, creating a reactive music player where songs can be skipped, paused and stopped with a single button similarly to an ipod shuffle, or controlled via an on board command system over USB.
◆ Used the onboard USART buffer to create an emulated terminal on the board for testing purposes
◆ Used off board components including buttons, LEDs, and a buzzer speaker to handle input and output for the user

FIRST Robotics, School / Personal Project
Spring 2023
◆ Worked on the programming sub-team for FIRST robotics team 639
◆ Worked with a small sub-team, as well as the larger team, to make a cohesive and functional robot.
◆ Managed communication with other programmers as well as mechanical engineers, the PR team

Nutrikit, Academic Project
December 2024
◆ Created a web app with React JS that interacted with a Python RESTful API
◆ Created a RESTful Python Flask API that worked with PostgreSQL to store and retrieve data
◆ Made an intuitive UI using Reactstrap that was usable on both desktop and mobile devices

RESTful Library API, Academic Project
October 2024
◆ Created a Python Flask API to represent a lending library system using PostgreSQL