

## Andrew Photinakis

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### Objective

Seeking a Software Engineering/Computer Science internship/co-op in a fast-paced environment to gain experience and expand knowledge to solve real world problems. Available January 2024 – August 2024.

### Education

**Rochester Institute of Technology (RIT)** || Anticipated Spring 2026 – 3<sup>rd</sup> year junior

Bachelor of Science, Computer Science || Finance || **GPA:** 3.22

**Computer Science Coursework:** Computer Systems, Parallel & Distributed Systems, Data Management, Intro to Software Engineering, Analysis of Algorithms, Mechanics of Programming, Intro to CS Theory, Discrete Mathematics for Computing

**Finance/Economics Coursework:** Financial Management, Financial Accounting, Principles of Microeconomics

### Skills

**Programming Languages & Technologies:** Java, C++, C, C#, MIPS Assembly, Python, JavaScript, TypeScript

**Version Control & Collaboration:** Git, GitHub, GitLab, Trello, Jira, Confluence

**Web Development:** Angular, React, JSON, JSoup, Selenium, REST API, Spring

**Software Development Tools & Practices:** GDB, PyTest, JUnit, Valgrind, Vim, Visual Studio Code, Scrum, Agile

**Database:** SQL

### Experience

**Herrick Technology Laboratories (HTL)** – (May 2023 – August 2023)

Software Engineering Co-op – (**C++**, **Git**, **REST API**, **Angular**, **Typescript**, **XML**, **CMake**, **Bash**, **DLL**)

- Accomplished seamless integration between HTL radios and third-party software using **C++**, measured by improved data capture and **Vita49** stream generation.
- Optimized information flow between systems, measured by enhanced data transfer speed, by developing a dynamic linking library.
- Enhanced UI testing efficiency by creating **Selenium**-based automation scripts in **Python**, improving functionality and usability of integrated services.
- Ensured accurate network packet transmission and reception through hardware testing using **Wireshark**, contributing to protocol analysis and validation.

**WebFinvizAPI** – (August 2023 – Present)

Personal Project – (**Java**, **Spring**, **JUnit**, **JSoup**, **Postman**, **Git**, **JWT**, **MVVM**, **REST API**, **JSON**, **NoSQL**)

- Engineered a flexible **MVVM** architecture for efficient financial data retrieval using **Java** and **Spring**, measured by efficient data storage and retrieval.
- Implemented **JSON Web Tokens (JWT)** for enhanced security and access control, measured by improved user authentication.
- Integrated rate limiting mechanisms for responsible web scraping, maintaining optimal data collection efficiency, and adhering to usage policies.

**Keyboard E-Store** – (January 2023 – May 2023)

Class Project – (**Java**, **Spring**, **Angular**, **TypeScript**, **JUnit**, **Postman**, **JSON**, **Scrum**, **Git**, **Trello**)

- Led the development of a user-friendly e-commerce website using **Angular** and **Java Spring**, measured by enhanced user experience.
- Conducted rigorous **JUnit** testing to ensure functionality, measured by identifying and resolving issues.
- Collaborated using **Scrum** and **Model-View-ViewModel** architecture, measured by successful project completion and code quality.

**PlaceIP** – (October 2022 – November 2022)

Class Project – (**C**, **Vim**, **Bash**, **Valgrind**, **GDB**)

- Constructed a radix tree-based database in **C** for optimized data storage, measured by improved efficiency and time complexities.
- Utilized **Vim** and **Bash** for efficient code editing, measured by enhanced workflow and code quality.
- Ensured code quality using **Valgrind** for memory leak detection and **GDB** for debugging, measured by reliable software performance.

### Extracurriculars/Awards/Volunteer Work

**Awards:** RIT Dean's List Spring 2022 & Fall 2022, RIT Presidential Scholar

**Work:** RIT Calculus Teaching Assistant, Dick's Sporting Goods Operations Associate

**Activities:** RIT Financial Management Association, RIT Society of Software Engineers, RIT Intramural Soccer

**Certifications:** LinkedIn Learning Algorithmic Trading & Stocks Essentials, Bloomberg Market Concepts

**Volunteer Work:** St. George Festival Volunteer, Manna Food Drive Preparer