

Phillip Johnson

Determined Computer Science graduate focusing on developing my programming skills and seeking to join an innovative software engineering team.

1219 Davidson Dr. APT R12
Fort Collins, Colorado 80526

720-400-1183
pdj1183@gmail.com
[Personal Portfolio](#)
[LinkedIn](#)

WORK EXPERIENCE

Colorado State University Undergrad Research Assistant, Fort Collins Co - [Hardware Reverse Engineer](#)

May 2023 – June 2024

- Researched Hardware Reverse Engineering as a security enhancing framework.
- Lead information gathering and PCB schematic recreation to find hidden hardware vulnerability.
- Develop and implement an attack on a Blackbox device, affecting its output and trustworthiness by up to 30%.
- Performed 6 controlled experiments to ensure our attack was successful and was statistically significant.
- Co-authored ifipSEC 2024 conference research paper contributing our experience in reverse engineering.

PROJECT EXPERIENCE

Portfolio E-Commerce Website

[NextJS](#), [React 18](#), [Flask](#), [SQLite](#)

- Photography Portfolio that uses NextJS for its image optimization along with a python Flask REST API connected to a database to handle user authentication and post storage.

Personal Portfolio Website

[React 18](#), [React-three-fiber](#)

- Single page personal portfolio created to display my personal projects.
- Hosted on GitHub Pages.

iOS Swift Application

[Swift](#), [NSPersistentCloudKitContainer](#)

- Application created to store and recommend albums based on user's album collection stored in iCloud

Trip Planning Class Project

[React 16](#), [Java RESTful API](#), [Scrum](#)

- Our first introduction to Software Engineering in Scrum teams.
- Added features to provided project on both frontend and backend,

Everyday Skills

- Leadership
- Adaptability
- Flexibility
- Communication

Programming Skills

- Scrum/Agile Team Development
- Git Version Control
- Front End Development
- Test Driven Development
- Reverse Engineering

Languages/Technologies

- JavaScript
- React
- CSS
- HTML
- TypeScript
- SQL
- Java
- Python
- Swift

EDUCATION

Colorado State University, Fort Collins Co — *BS Computer Science*

August 2020 – May 2024

Graduated with a concentration in Networking and Security and a minor in Mathematics. I have a passion for exploring the intricacies of cybersecurity. I am currently researching the benefits of Hardware Reverse Engineering as a framework to discover new attack vectors. Through my coursework, I have gained a strong foundation in leadership, adaptability, and effective communication. Equipped with an array of programming skills, including Scrum/Agile Team Development, Object-Oriented Programming Design, and Test-Driven Development, I am eager to begin my career and contribute to a team.

Educational Experiences

- **Team Driven Development:**
 - Three different semester long Scrum team projects.
- **Object Oriented Design**
 - Practiced using Object Oriented design principles to improve software development.
- **Cybersecurity and Networking:**
 - Studied most common Security and Networking protocols.