

# Phillip Johnson

Determined Computer Science major with a focus on Cybersecurity and proven experience in hardware reverse engineering research. Seeking opportunities to further apply my skills and knowledge.

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[Personal Portfolio](#)

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## EDUCATION

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

August 2020 – Graduating Spring 2024

Currently attending Colorado State University (CSU), I am a dedicated Computer Science major with a concentration in Networking and Cybersecurity, complemented by a minor in Mathematics. With a passion for exploring the intricacies of cybersecurity, I am currently in my fourth year, actively engaged in unexplored research within the Cybersecurity department. 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 well-prepared to tackle complex challenges.

## EXPERIENCE

### Colorado State University Undergrad Research Assistant, Fort Collins Co – Hardware Reverse Engineering

May 2023 – Present

- Conduct research on hardware reverse engineering for the Cybersecurity department.
- Develop and implement an attack on a Blackbox device to alter its output without triggering suspicion.
- Lead information gathering, PCB schematic recreation, IoT device application creation, and hardware measurements.
- Performed controlled experiments, collect hardware and digital data, and demonstrate statistical significance to prove the device's vulnerability.

### Advanced Auto Parts, Fort Collins Co — *Retail Parts Pro*

January 2022 – May 2023

- Provided exceptional customer service by addressing customer inquiries and resolving issues related to their vehicles.
- Demonstrated comprehensive knowledge of automotive components and their impact on vehicle performance.
- Oversaw front of store operations, ensuring smooth sales and customer satisfaction.
- Assisted the store manager in training and equipping sales personnel with technical knowledge.

## Everyday Skills

- Leadership
- Adaptability and Flexibility
- Communication

## Programming Skills

- Scrum/Agile Team Development
- Object Oriented Programming Design
- Wireshark
- GitHub
- Front End Development
- Test Driven Development
- Penetration Testing

## Languages/Technologies

- C/C++
- SQL
- Java
- Python
- JavaScript
- HTML
- CSS
- React

## **Mod Pizza, Parker CO— *All-Star***

January 2019 - July 2021

- Excelled as a Team Member at the new Mod Pizza location in Parker, rapidly mastering all job responsibilities and requirements.
- Promoted to the position of All-Star due to performance and the ability to adapt to varying roles and responsibilities.
- Received training on how to onboard new hires and teach them the roles of the job.
- Ensured smooth operations and collaboration among team members to maintain a positive and efficient work environment.

### **Most Influential Computer Science Classes**

- CS-314 Software Engineering
  - Introduction to team-driven development.
  - Semester long project following the SCUM model.
  - Progress evaluation using the CMMI maturity scale.
- CS-320 Algorithms—Theory and Practice
  - Algorithm optimization techniques.
  - Testing and evaluating algorithm efficiency.
- CS-464 Principles of Human-Centered Interaction
  - Semester long focus on Human Computer Interaction.
  - Collaborative team research project, including hypothesis creation, experiment design and execution.
  - Statistical evaluation of results
  - Findings presented in a formatted conference research paper.
- CS-414 Object Oriented Design
  - Exploration of Agile programming methodologies.
  - Collaborative work with a customer transcript to generate a design plan.
  - Use CRC cards to understand class responsibilities.
  - Use design patterns to enhance code design.