

**Fisher Darling**  
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## EDUCATION

### Colorado School of Mines

*B.S. Computer Science; GPA: 3.45*

Golden, CO

*Expected May 2021*

**Coursework:** Data Structures, Algorithms, Operating Systems, Compilers

## EXPERIENCE

- **Verizon (ProtectWise)** Denver, CO  
*Software Engineering Intern* *Aug 2019 – Present*
  - Write fully asynchronous and multi-threaded software for analyzing and capturing network packets to build the next generation of Intrusion Detection Systems.
  - Implement system metrics for analyzing the health of deployed software to bring more value to clients.
  - Develop open source code that expands the Rust ecosystem.
  - Participate in weekly Agile standups and groomings.
- **ProtectWise** Denver, CO  
*Product Engineering Intern* *Oct 2018 – May 2019*
  - Trained team members in the Rust Programming language. This included researching libraries needed for our product and pair programming with senior engineers to teach them Rust paradigms.
  - Implemented a multi-threaded, asynchronous packet capturing library using AF\_PACKET C bindings. These bindings were then used in production code to act as input for our packet analysis engine.
  - Created tooling for debugging local instances of production code.
- **Colorado School of Mines** Denver, CO  
*Secure Robotic Systems Research Assistant* *Aug 2018 – May 2019*
  - Presented on different adversarial machine learning attack methods, such as FGSM and JSMA.
  - Documented and prepared minutes for the secure robotics systems research group meetings.
  - Read and summarized research papers in Adversarial ML.

## PROJECTS

- **WABI – WebAssembly Binary Interpreter** Rust
  - Developed a WebAssembly virtual machine and runtime true to the WebAssembly v1.0 specification to learn about virtual machines and their architectures.
- **Cloud VPN Infrastructure** Rust, Docker, Microservices
  - Constructed a microservice infrastructure that dynamically creates secure VPNs on the Digital Ocean Cloud.

## ACTIVITIES & AWARDS

- **1st Place, Facebook Global Hackathon** 2018
  - **HypAR Maps:** A completely offline Indoor Navigation System using ARCore and Kotlin.
  - Wrote the system for determining an image's transformation matrix.
  - Qualified at **MHacks 2018:** Facebook *Best Social Good Hack*, Google *Best Use of Google Cloud Platform*.
- **2nd Place, HackUTD** UoT@Dallas, 2019
  - **HealthcAir:** Travel application that combines travel with cheap, overseas medical operations.
  - Created an API that the backend queries for healthcare data.
- **2nd Place, CyberPatriot IX National Finals** 2017
  - Used Linux system hardening and networking skills to remove security vulnerabilities in user systems and servers.
- **Founder and President of OreSec – Mines CyberSecurity Club** 2019
  - Host and lead weekly meetings on CyberSecurity topics.
  - Present on Web Exploitation, Cryptography, Fuzzing and Binary Exploitation.
  - Grew membership to over 40 members.

## SKILLS

- **Languages:** Rust, Python, C, Java, C++, German B2 **Technologies:** Git, Unix/Linux, Docker, AWS, GCP