

## Software Engineer

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- Computer Science Senior at CU Boulder with a strong foundation in software development methods and tools and passion for leveraging technology to develop innovative solutions for complex challenges.
- U.S. Armed Forces veteran with demonstrated expertise in leadership and collaboration, and a strong commitment to integrity and teamwork.

## Education

**Bachelor of Science: Computer Science**  
*University of Colorado Boulder (CU Boulder)*

**August 2021– May 2025 (Expected)**  
*Boulder, Colorado*

**Relevant coursework:** Algorithms, Data Structures, Databases, Operating Systems, Computer Networks, Cybersecurity, Ethical Hacking, Unix/Linux System Administration, OOAD, Intro to AI.

## Projects

**Designing for Defense Senior Project**  
*University of Colorado Boulder*

August 2024 – Present

- Collaborating with the U.S. Department of Defense to develop tools for the Space Domain Awareness Lab to interrogate targets in space and evaluate for evidence of CCDM (camouflage, concealment, deception, or maneuver) from adversarial satellites.
- Focused on architecting engineering solution to aggregate and fuse data from multiple sources and create CCDM detection algorithm. Utilizing Python, Node-RED, and AWS DoD Cloud.

**Web Application for In-Game Skin Purchases** ([Project](#)) ([GitHub](#))  
*University of Colorado Boulder*

August – December 2023

- Designed an intuitive platform for **CS:GO** players to search, filter, and purchase in-game skins.
- Implemented a robust search engine with advanced filtering capabilities (rarity, color, pattern, price).
- Technologies: **Python, Node.js, SQL, PostgreSQL, HTML/CSS, Multer Middleware.**

**Helicopter Crutches Preliminary Design Prototype** ([Project](#))  
*CAD Club President | College of San Mateo*

August – December 2020

- Led a multidisciplinary team of four to develop a prototype for Piasecki CH-21 helicopter crutches.
- Achieved recognition with a display at the Aerospace Museum of California after competition.

## Technical Skills

**Programming:** Python, Java, C, SQL, Node.js, Flask, MATLAB, HTML/CSS, API, Unix Shell Scripts

**Cybersecurity:** XSS, DDoS, SQL Injection, Session Hijacking, CSRF, Burp Suite, Wireshark, Hashcat, Tcpdump, Nmap

**Tools & Frameworks:** Docker, Git/GitHub, SysML, LaTeX, AWS, DoD Cloud, Bootstrap, Jupyter

## Work Experience

Chemical, Biological, Radiological, and Nuclear Defense Chemical Specialist  
*United States Army Reserve*

June 2020 - December 2024

## Achievements

- **Eagle Scout Award** (2019): Highest rank in Boy Scouts, accompanied by two Eagle Palms
- **Certificate of Merit for Meritorious Action** (2018): Recognized for life-saving actions as a Boy Scout