

LUKE CAMPBELL

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EDUCATION

University of Colorado Boulder, College of Engineering & Applied Science
B.A in Computer Science, Computer Science Major

- Dean’s List 2023, 2024

Boulder, CO
Expected May 2025

SKILLS

- Python, C, C++, x86-64 Assembly, Java, Javascript, SQL, MongoDB, HTML, CSS, EJS, Scala
- Git Version Control
- Docker Containerization
- Linux Kernel, Server Management, Data Analysis, Vim

COURSEWORK

- Computer Systems, Algorithms, CyberSecurity, Data Structures, Discrete Structures, Principles of Programming Languages, Software Development, Object-Oriented Analysis, Database Systems, Data Mining, Human-Computer Interaction

PROJECTS

Real-Time Inventory Monitor for E-Commerce
Creator and Lead Developer

- Utilized Python (Requests, BeautifulSoup) to develop a system that monitors online inventory on major e-commerce platforms including Target, eBay, and Walmart.
- Deployed and maintained CentOS server with web hosting.
- Formed a partnership and licensing agreement with a for-profit Discord server with 3000+ members.
- Implemented webhook integration to provide stock notifications, generated \$1.2M in gross revenue on eBay in three months.

EventEDU
Full-Stack Developer

- Worked alongside a team to create a social media website where college students can join communities of interest, discover events happening nearby, and form online friendships.
- Utilized Microsoft Azure, NodeJS, JavaScript, HTML, CSS, EJS, PostgreSQL.

NFL Play Type Prediction
Kaggle.com Competition - NFL Big Data Bowl 2020-2023

- Created a machine learning model predicting NFL play types (run, pass, punt) based on historical actions in large datasets. Processed large datasets, utilized Python (Pandas, NumPy, Scikit) and Jupyter. Delivered reliable, data-driven insights with the model reporting 90%+ accuracy.

Redwood City, CA
January 2020 - August 2020

Boulder, CO
October 2023 - December 2023

Boulder, CO
September 2023 - December 2023

CERTIFICATIONS

Certificate of Merit for Outstanding Achievement, Computer Science
Carlmont High School

- Award presented by the Computer Science Department for outstanding achievement in AP computer science concepts.

AIG Shields Up: Cybersecurity Certification

- Completed a cybersecurity threat analysis simulation for the Cyber Defense Unit, staying updated on CISA publications.
- Utilized Python skills to write a script for ethical hacking, avoiding ransom payments by brute forcing decryption keys.

Mastercard Cybersecurity Certification

- Completed a job simulation serving as a Cyber Analyst on Mastercard’s Security Awareness Team.
- Helped identify, analyze, report, and remedy phishing security threats.

OverTheWire Ethical Hacking Finalist

- Interactive cybersecurity challenge that cultivates proficiency in Unix/Linux command-line skills, SSH, data manipulation and injection, identifying network vulnerabilities.
- Foundational cybersecurity experience through problem solving a progressive 33-level puzzle, understanding and exploiting network systems.

Belmont, CA
March 2020

December 2023

December 2023

January 2023

LEADERSHIP

Judicial Board Chairman / Head of Risk Management
Phi Gamma Delta

- Developed and implemented risk management policies, conducted safety audits, trained members on risk awareness, communicated with emergency service officials, and ensured compliance with university and fraternity regulations.

Boulder, CO
November 2021 - November 2022