Axel VandenHeuvel

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EDUCATION

University of Colorado Boulder Boulder, CO
Bachelor of Science in Computer Science *Expected May 2026*
- GPA: 3.61/4.0 — Computer Science GPA: 3.95/4.0
- Relevant Coursework: Data Structures, Algorithms, Software Development, Databases, Data Science, Cyber Security, Artificial Intelligence, Machine Learning, Object Oriented Design, AI Tooling in Software Dev.

PROJECTS

VLMs for Deep Space Spacecraft | *C++, VLMs, Docker, Linux* NASA JPL Capstone August 2025 - Present
- Collaborating with NASA's Jet Propulsion Laboratory to develop an open source software library to run and evaluate VLMs for deep-space spacecrafts.
- Building a custom runtime and evaluation pipeline in C++ to deploy models (e.g., gemma3) on low-power systems such as Raspberry Pi-class devices.

Sherlock | *Python, JavaScript, HTML, CSS, Flask, OpenAI* Hackathon Project March 2025
- Developed a Chrome extension that verifies internet claims by providing a factuality verdict, summary, and reputable sources with a single click.
- Utilized OpenAI's NLP models in conjunction with Google Search results for context-based verification and automated summarization.
- DevPost Link, Github Link

Autonomous Detect and Act Battlefield Platform | *Python, CAD* August 2024 – December 2024
- Sponsored by the U.S. Army Cyber Institute; collaborated closely with mentors, sponsors, and subject-matter experts to align project goals with real-world defense applications.
- Conducted 50+ interviews with industry experts, end-users, cybersecurity professionals, agricultural specialists, professors, mentors, and sponsors to gather diverse insights and refine system requirements.
- Co-designed and developed a modular hot-swap payload drone system with integrated software to enhance operational efficiency and adaptability in multi-domain scenarios.

SportsSnap | *JavaScript, HTML, CSS, Flask* Hackathon Project August 2024
- Conceptualized and helped develop a browser extension for sports fans to access real-time player and game data while watching video content.
- DevPost Link

Community Event Platform | *JavaScript, HTML, CSS, PostgreSQL, Node.js* Class Project, Fall 2023
- Github Link

EXPERIENCE

Cloud Solutions Intern June 2025 - August 2025
Tenet Healthcare *Dallas, TX*
- Analyzed enterprise licensing data to identify inefficiencies, enabling the reclamation of unused licenses and achieving annual cost savings of $500,000.
- Developed and integrated DocuSign API functionality to automate user notifications for outstanding documents, streamlining the signing process.
- Created and optimized PowerShell scripts to automate licensing-related processes, including identifying users with errors, mapping group memberships, retrieving primary licenses, extracting on-premises group data, and report the outstanding cost of reserved licenses throughout the fiscal year.

Student Assistant May 2023 - Present
University of Colorado Boulder — Environmental Design *Boulder, CO*

TECHNICAL SKILLS & INTERESTS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, Powershell
Frameworks & Libraries: Node.js, Flask, NumPy
Developer Tools: Git, Docker, VS Code, IntelliJ, Cursor
Interests: Weight-Lifting, Mechanical Keyboards, Video Games, Hiking