Kellen R. Snider

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EDUCATION

University of Oregon, Clark Honors College – B.S. Computer Science (Expected June 2027) Eugene, OR

- **GPA: 3.95/4.00** | Minors: Mathematics, Entrepreneurship, and Political Science
- Coursework: Operating Systems, Computer Organization, C/C++ & Unix, Data Structures, Algorithms, AI, ML Statistics

Aurora Flight Training – Private Pilot Certificate (July 2024 – December 2024) Aurora, OR

- 80 hours total time in C-172N/S/SP and DA-20 aircraft | FAA First Class Medical | PAR written 93%, IRA written 95%

ATLAS AI – COMPUTER VISION FOR GENERAL AVIATION SAFETY

Co-Founder, Lead Engineer & Test Pilot | Clark Honors College Thesis (January 2025 – Present) Eugene, OR

- Building an on-device computer vision system that detects non-ADS-B aircraft from an iPhone camera, targeting detection at 1–2 miles; training on Amazon's Airborne Object Tracking dataset plus proprietary flight footage
- Built a cockpit data-collection pipeline that records video and telemetry alongside traffic from a team-built Stratux ADS-B receiver, using the ADS-B data to label footage for model training
- Flew 2 instrumented flight tests as pilot in command; Flight 1 logged 82 minutes of video (148K frames) and 6,737 ADS-B reports
- On unseen Flight 2 footage, the detector (trained only on public data) locked onto an aircraft as the crew spotted it and tracked it through the full 17-second encounter, filtering ~300 candidates per frame
- Selected for the Oregon UAS Accelerator (Cohort 4, Fall 2026) and awarded $5,000 as an Oregon Innovation Challenge Fellow
- Lead engineering on a two-founder team; gathered requirements from 12+ pilots and instructors and 2 partner flight schools

WORK EXPERIENCE

Oregon Blockchain Group – Software Engineer (April 2026 – Present) Eugene, OR

- Lead a 9-person OBG team (6 engineers, research, marketing) on the NASA RASC-AL 2027 lunar rover challenge (see Projects)
- Co-developed TrustLedger, a trustless escrow and decentralized arbitration protocol (see Projects)

Sower Creative – Freelance Web Developer (May 2026 – Present) Eugene, OR

- Shipped 5 production websites (2 for paying clients) as technical lead of a 3-person agency (HTML/CSS/JS, SEO schema)
- Own end-to-end delivery: mobile-responsive design, third-party integrations (form backends, video hosting, financing widgets), and GitHub-based deployment

University of Oregon – Computer Science Learning Assistant (September 2024 – April 2025) Eugene, OR

- Mentored CS 122 students weekly across two 10-week terms through debugging support and guided problem solving

Finlandia Sauna – Manufacturing Technician (June 2024 – December 2024) Tigard, OR

- Assembled and wired electrical control panels for custom sauna units, from component layout to system-level QA

PROJECTS

NASA RASC-AL 2027 – Autonomous Lunar Prospecting Rover | Project Lead (Fall 2026 – Present)

- Designing an autonomous, battery-powered rover concept for lunar resource discovery (Theme 3: Lunar Resource Exploration) for a February 2027 NASA proposal, ahead of Phase II selection
- Lead mission planning and directed research across 6 subsystem areas (3 major technical papers, 10+ pages of team notes); designed a modular line-replaceable-unit architecture so subsystems can be repaired by EVA or robots

Curate – AI Subscription Manager | 1st Place, .tech Track, QuackHacks 3 (~100 teams) Live Site, Git Repo

- Built a full-stack web app in 24 hours on a 3-person team (Next.js/TypeScript, Express, MongoDB, JWT auth) that recommends which streaming services to keep each month across 8 providers and a 2,000-title catalog
- Developed a Claude tool-use agent (via MCP) that carries out subscription changes, plus a Gemini computer-use agent that automates service sign-ups in a remote browser

TrustLedger – Decentralized Escrow & Arbitration Protocol Git Repo, Webpage

- Co-developed a trustless escrow protocol on Arbitrum (Solidity, Foundry, Hardhat); designed the architecture and arbitration mechanism (Chainlink VRF juror selection, staked juror committees, slashing, appeals) and tested core contracts

Market Confidence Analyzer – 3rd Place of 45 Teams, QuackHacks 2: real-time 0–100 market confidence score built in 24 hours from 5 data sources (stocks, crypto, housing, bonds, Polymarket). Git Repo

SKILLS

- **Languages:** C, C++, Python, Swift, Solidity, TypeScript/JavaScript, SQL, HTML/CSS
- **Machine Learning & CV:** PyTorch, OpenCV, Core ML, YOLOv8, object detection, dataset collection and labeling
- **Tools:** Git, Linux/Unix, Vim, Foundry, Hardhat, FastAPI, Node.js, Netlify, Vercel
- **Aviation & Hardware:** ADS-B (Stratux), in-cockpit hardware integration, flight testing, electrical control panel assembly