

# Steven “Andy” Lewis

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## EDUCATION

### University of California, Los Angeles (UCLA)

September 2022 - Present

*Bachelor of Science, Electrical Engineering*

*Los Angeles, CA*

- Dean's Honors List, National Cyber Scholar
- Communities: Fast Track to Success Electrical and Computer Engineering (ECE) Honors Program, Association for Computing Machinery (ACM) Hack and ACM Cyber, Licos Information Theory and Systems Laboratory
- Relevant coursework: Software Construction, Data Structures and Algorithms, Intro to Engineering Design: Internet of Things, Computer Organization, Operating Systems Principles, Logic Design of Digital Systems, Statistics, Discrete Mathematics, Multivariable Calculus, Linear Algebra, Differential Calculus, Honors Mechanics

## TECHNICAL SKILLS

**Languages:** Python (NumPy, TensorFlow), C++, HTML, CSS, JavaScript, regex, Bash, YAML, C, x86 Assembly, Markdown, Elisp

**Frameworks:** React.js, Express.js, Tailwind CSS, Three.js, Next.js, Gatsby

**Tooling:** AWS (EC2, S3, Lambda, Sagemaker, DynamoDB), git, Node.js, Vite, Vercel, Postman, MongoDB, Docker, Podman, Ghidra, Valgrind, GDB, Splunk, Ansible, VS Code, Emacs, vim/nvim

**Other:** Linux, Windows (WSL2), Agile, Test Driven Development, Unit Testing, DevOps, GitHub/GitLab, Slack, Discord, Microsoft Office, Adobe Suite, Unity, TestOut IT Fundamentals+ Pro Certified, TestOut Security Pro certified, Software Defined Radio, Raspberry Pi, Arduino, STM32 Microcontroller

## WORK EXPERIENCE AND PROJECTS

### Undergraduate Researcher

June 2023 - September 2023

*UCLA Licos Information Theory and Systems Laboratory*

*Los Angeles, CA*

- Implemented, tested, and optimized C++, Python bioinformatics, big data algorithms to investigate and improve the accuracy of de novo genome assemblies using quantization and current-level modeling of nanopore reads
- Published research in 2023 UCLA SURP Research Journal under Ph.D. advisor and lab mentorship

### Cybersecurity Engineer Intern

Summer 2021 & 2022, February 2023 - June 2023

*Lockheed Martin*

*Colorado Springs, CO & Los Angeles, CA*

- Worked independently and with an Agile scrum to debug and develop Ansible and Splunk machine data automation pipeline, CI/CD pipelines, and cybersecurity systems (Python) for the Milstar/Advanced Extremely High Frequency (AEHF) satellite constellation and the AEHF Satellite Mission Control Subsystem (ASMCS)
- Supported risk management program in debugging technical assets and providing quality assurance feedback

### ACM Hack Officer & ACM Cyber / PBR Team Member

September 2022 - Present

*UCLA ACM Chapter*

*Los Angeles, CA*

- Maintain ACM Hack and HOTH (our Hackathon) websites as part of Dev Team using Gatsby, React.js, Node.js
- Direct, create curriculum for and teach weekly workshops covering full-stack development fundamentals (MERN stack), JavaScript, AWS cloud computing, servers, serverless in live sessions and on YouTube
- Compete in and train weekly for CTFs with Psi Beta Rho (PBR), UCLA's competitive cybersecurity team

### NotePoint

February 2023 - May 2023

*The NotePoint Team*

*Los Angeles, CA*

- Developed full-stack website using Vercel, Vite, Spotify API, REST, Tailwind CSS, MERN stack (MongoDB, Express.js, React.js, Node.js) to provide users with accessible listening statistics and relevant music discovery
- Organized app frontend and backend design, DevOps (Vercel deployments, git version control, CI/CD), and feature assignments for the NotePoint team

### Aircraft Cybersecurity Environment(ACE)

2019 - 2020

*Regeneron International Science and Engineering Fair*

*Colorado Springs, CO & Anaheim, CA*

- Leveraged software-defined radios, aircraft ADS-B big data, TensorFlow machine learning, and Python (pandas) to detect and perform analysis on spoofed aircraft, preventing malicious radio frequency cybersecurity attacks
- Project Achievements: Regeneron International Science and Engineering Fair (ISEF) Finalist, Pikes Peak Regional Science and Engineering Fair (PPRSEF) Grand Award, Patent and Trademark Office Society Grand Award, Northrop Grumman Excellence Award, U.S. Air Force 1st, Armed Forces Communications & Electronics Association (AFCEA) 1st, Ascension Engineering Group 1st