

Dylan Gerhard

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EDUCATION

University of Central Florida

Bachelor of Science in Computer Science

- GPA - 3.97 | Bright Futures Florida Academic Scholarship (2025)

Eastern Florida State College

Computer Science Coursework

- GPA - 4.00 | President's List (Fall of 2024 & Spring of 2025)

Orlando, FL

Aug. 2025 – May 2029

Cocoa, FL

Aug. 2024 – May 2025

EXPERIENCE

Incoming Software Engineer Intern

L3Harris

Project Manager

Scouting America | Eagle Scout, Senior Patrol Leader, Instructor, Troop Guide

- Led the planning and execution of an Eagle Scout service project constructing 2 buddy benches for a preschool serving children with disabilities, delivering 123 total volunteer hours of community impact
- Coordinated with the scouting district to develop and secure approval for a comprehensive project proposal, ensuring adherence to safety protocols and effective sourcing of tools and materials
- Recruited, organized, and managed 17 volunteers—including youth scouts, scouting adults, and community members—over 25 hours of planning and 8 hours of on-site execution

June 2026 – Aug. 2026

Palm Bay, FL

June 2024 – Sept. 2024

Melbourne, FL

PROJECTS

Uniconverter | *Docker, Gunicorn, FFmpeg, Python, Flask, Progressive Web App, GitHub Actions, CodeQL Scanning*

- Built a batch file conversion workflow streamlining multi-file processing for large-format media
- Containerized the service with Docker to ensure horizontal scalability under concurrent workloads
- Leveraged FFmpeg's optimized media pipelines to support diverse audio and video formats

LOLA — Localized Offline Language Agent | *AI, LLM, Python, Flask, Whisper, Ollama, pytsx3*

- Built a fully offline language interface to enable text generation in low-connectivity and privacy-sensitive environments
- Enabled end-to-end voice interaction using on-device STT and TTS, improving access without cloud dependencies
- Deployed local LLM inference through Ollama to minimize latency and preserve user data

Encrypt Web | *JavaScript, CSS, crypto-js, zxcvbn, Web Security*

- Implemented client-side encryption to protect data in transit, eliminating server-side exposure of sensitive information
- Evaluated password entropy using zxcvbn to prevent weak key selection and improve resistance to brute-force attacks
- Delivered a lightweight encryption tool that lowers the barrier to applying cryptographic best practices for users

SKILLS

Certifications: IBM – AI Literacy, Agile Explorer (2025) | GitHub – Workflow Automation, Advanced Security (2025)

Languages: Python, C, C++, C#, Java, JavaScript, TypeScript, HTML, CSS, Bash, Perl, LaTeX, R

Tools: Git, Docker, Tensorflow, PyTorch, Wireshark, Ghidra, Nmap, WireGuard, OpenVPN, John the Ripper, LUKS

Soft Skills: Agile Development, Problem-Solving, Collaboration, Adaptability, Continuous Integration/Continuous Development (CI/CD), Quality Assurance, Time Management, Communication

INVOLVEMENT

Collegiate Cyber Defense Club | *Member*

- Competed in the annual Orange County Public Schools Cyber Challenge (2026)

- Explored real-time deepfaking media technologies and their security implications in identity verification

Cybersecurity Club | *Member*

- Sponsored by: Raytheon CODEX, Research Innovation (RI), Binary Ninja, and Florida Tech

- Competed in Code Quest and Cyber Quest coding competitions at Lockheed Martin annually (2023 – 2025)

Aug. 2025 – Present

Aug. 2022 – May 2025

AWARDS & ACHIEVEMENTS

- AP Capstone Diploma (2025), AP Scholar Award (2023), AP Scholar with Distinction Award (2024 & 2025)
- Good Citizenship Award (2025, Marine Corps League & American Legion Post 344)
- Certificate of Achievement (2025, Fleet Reserve Association)