

ISAAC C. LLOYD

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PROFESSIONAL SUMMARY

I am a cyber operations and computer science student building secure technology that solves real problems. During my time developing software at Northrop Grumman, I have learned to collaborate in fast-paced environments with extreme attention to the quality of my work. At Cedarville University, I've developed technical skills through cybersecurity coursework and competitions. I believe that high-quality technology needs both architects who deeply understand systems and collaborators who connect with people. I aim to be both, driven by my relentless curiosity, passion for creative problem-solving, and a desire to invest in the people with whom I am blessed to do life and work.

EDUCATION

Cedarville University (ABET Accredited, NCAE-CD, NCAE-CO)

Cedarville, OH

B.S. Cyber Operations, B.S. Computer Science; GPA (Major): 3.8

Expected Graduation: May 2027

EXPERIENCE

Northrop Grumman Defense Systems

Dayton, OH

Software Developer (Full-time summer internship + **Return for part-time work**)

Jun 2025 – Present

- **Architected and developed a full-stack enterprise application** using Java Spring Framework and Angular to automate software approval workflows, replacing convoluted manual processes for 100+ developers and reducing time spent by managers up to 90% per artifact approval.
- **Built comprehensive REST API backend with 10+ microservices** handling CRUD operations; integrated LDAP Active Directory authentication with MongoDB role-based access control using JWT tokens
- **Implemented fuzzy search** using custom Levenshtein distance algorithm with dynamic programming to search 2000+ software artifacts by multiple fields, dramatically improving discoverability
- **Designed TypeScript CLI tool** to resolve complex dependency trees for multiple project types and automatically generate approval reports based on each dependency's status
- **Delivered production-ready code** meeting senior developer quality standards using SonarQube; participated in full Scrum methodology with consistent sprint deliveries

Cedarville University Campus Experience

Cedarville, OH

Software Developer (Part-time)

Aug 2024 – May 2025

- **Developed software tools and automations** using Next.js and Microsoft Power Automate to streamline processes inside of the Campus Experience team, significantly improving inter-team communication and productivity.
- **Authored comprehensive documentation** for projects, ensuring knowledge transfer and system maintainability within the team.

Nordhavn Yachts

Dana Point, CA

Commissioning Technician (Full-time)

Aug 2022 – Aug 2024

- **Worked constructively with a small team** of technicians through the multi-month commissioning process to ensure the flawless functionality of every onboard system without external guidance.
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ACHIEVEMENTS

National Cyber League (2025) Finished 148th overall out of 8000+ participants, demonstrating exceptional skill in various cyber-related areas including penetration testing, network analysis, etc.

Eagle Scout (2023) Received congressional recognition for this achievement. Completed over 150 hours of community service and served in four important leadership roles.

TECHNICAL SKILLS

Software Development

Languages: Java, C++, Python, TypeScript/JavaScript

Development tools & frameworks: Spring Boot,

Next.js/React, OpenAPI Gen, Microservices

Architecture, JWT Authentication, Git/GitHub,

SonarQube, JUnit/Jest, Agile/Scrum

DevOps: Docker/Podman multi-container

orchestration, CI/CD (GitHub Actions, Gitlab Pipelines), secrets management (Doppler, Dotenv)

Cloud & Infrastructure: DigitalOcean, Vercel, Cloudflare (WAF/DDoS protection, CDN, DNS security), network infrastructure management, tunnel configuration