Dalton Luce

Boston, MA LinkedIn GitHub daltonluce.com

Education

Cornell University
Expected 2026

Bachelor of Science in Electrical and Computer Engineering, CS minor *Ithaca, NY*

- 4.028 GPA, Dean's List all semesters
- James E. Rice Jr. First Year Writing Seminar Award Nominee
- Autobike Project Team Software Lead, IEEE at Cornell Executive Board, Cornell Outdoor Education Student Instructor, Cornell Club Swim Vice President
- Relevant coursework: Differential Equations, Linear Algebra, Functional Programming; OOP and Data Structures, Data Science, Digital Logic and Computer Organization, Embedded Systems

Experience

RTX

Software Engineer, Intern Summer 2024

- Developed Perl tooling in Git and GitLab to enhance a DevSecOps software pipeline serving over one thousand users.
- Built custom tools to monitor infrastructure stability across hundreds of servers with diverse configurations.
- Analyzed trends using Grafana to inform data-driven improvements in the DevOps pipeline.
- Jira administrator, created and configured projects for software teams, leveraging Groovy scripting to automate project processes.
- Jenkins administrator, updated and debugged CI/CD jobs related to infrastructure stability and code validation.
- Monitored test failures in product branches and validated C++ code changes, ensuring smooth integration into the baseline and maintaining code integrity across releases.

Software Engineer, Intern Summer 2023

- Worked on X-Band Radar software with over one million lines of source code.
- Learned Ada programming language, ClearCase version control, and Jenkins to correct software bugs and new feature development.
- Assisted in redevelopment of tool allowing better testing of capabilities of radar software.
- Collaborated closely across teams of system engineers, validation teams, and software developers to ensure accurate code functionality and resolve issues efficiently.
- Participated in daily scrum, sprint planning and backlog refinement.

Cornell Autonomous Bicycle Project Team

Software Subteam Lead Summer 2024 - Present

- Defining technical goals and allocating tasks tasks for team of eight
- Onboarded and mentored new team members, providing training on project architecture and tools
- Collaborate with cross-functional teams, including hardware and mechanical subteams, to integrate software solutions into bike
- Automated CI/CD pipelines using GitHub Actions, catching code regressions
- Set up Docker and ROS infrastructure, streamlining the development and deployment process for autonomous navigation systems

Navigation Developer Fall 2022 - Spring 2024

- contributed to repository with twenty-five thousand lines of source code
- Researched optical flow techniques to predict future occupancy grids using OpenCV
- Developed bicycle dynamics algorithims in Python to predict future bicycle states

Selected Engineering Programs

Hajim School of Engineering & Applied Sciences Pre-College Intensive
Summer 2021

University of Rochester *Virtual*

- Attended competitive 20-student cohort three-week intensive studies program completing week-long modules in electrical and computer engineering, data science, and biomedical engineering.

Luddy Pre-College Summer Computing & Engineering Summer Program
Summer 2021

Indiana University, Luddy School of Informatics *Virtual*

- Attended a week-long pre-college exploratory program that covered topics such as intelligent sound-processing, microbiome gene sequencing, 3D modeling.

Technical Skills

- **Languages**: OCaml, C, ADA, Java, Python, JavaScript/HTML/CSS, Bash
- **Frameworks**: Svelte
- **Developer Tools**: Git, Docker, Jenkins, ClearCase