Julia Keadey

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EDUCATION

Northeastern University, Boston MA   **May 2026**
Bachelor of Science in **Computer Science + Computer Engineering** with **Math** minor   3.87 GPA
Relevant Courses: Chemistry, Differential Equations, Physics, Discrete Math, Probability & Stats, Embedded Design, Computer Systems (graduate), Number Theory, Networks, Object Oriented Design, Circuits & Signals, Digital Design, Systems Security
Activities: Project Horizon CubeSat, Hungary Mathematics Dialogue, Intro to Rocketry, Math Club

RELEVANT SKILLS

Languages: Rust, Python, Java, Javascript, Racket, C/C++, MATLAB
Tools: Git, Linux (Nixos, Arch, Debian, Ubuntu), Arduino, Docker
Electronics & CAD: Arduino, Onshape, Solidworks, Various microcontrollers, Soldering

PROJECTS

Project Horizon [Avionics Lead]   **Fall 2022 - Present**
- Design a 12U CubeSat to test experimental communications tech for launch with NASA CSLI
- Develop a flight software for custom OBC boards on a 1U testing satellite launching in a year

Dotfiles & Linux Configs, Personal Project [Nix] [Linux] [Bash]   **Summer 2021 - Present**
- Maintain a NixOS config for a laptop and desktop along with two debian servers

Computer Systems Projects [C] [Linux]   **Fall 2023**
- Implemented POSIX Threading Library with mutexes & condition variables
- Created a Linux Shell, implements cd, pwd, exit, binary execution, piping, and file redirection
- Designed an EXT2-like FUSE Filesystem

Cloudflare DDNS, Personal Project [Python] [Docker]   **Summer 2023**
- Created a DDNS service to keep a domain pointed at a server with a dynamic ip

Cloudsync, Personal Project [Rust]   **Spring 2023**
- Constructed a trait for syncing serializable objects to Firebase, available on crates.io

MC-Docker, Personal Project [Rust] [Docker] [Web Server]   **Spring 2023**
- Managed minecraft servers using docker containers and exposed a HTTP API for plugins

SylkBot, Personal Project [Rust] [Discord API]   **Fall 2022**
- Created a Discord bot for personal use with a voting system and an external database

FRC Team 587's 2022 Robot [FIRST Robotics] [Team Captain]   **Spring 2022**
- Led the design & construction of the robot that won the NC State Championship
- Served as Team Captain, Drive Coach, Co-Captain, Electrical Lead, Technician, Member for 4 years
- Used CAD tools, helped machine parts, led design and prototyping, and helped write vision code

WORK & LEADERSHIP EXPERIENCE

Wilmore Electronics, Assembler   **Summer 2022**
- Assembled various custom DC/DC power converters and learned about to manufacturing processes

Scouts [Troop 438] [Lodge 104]   **Fall 2011 - Fall 2021**
- Performed duties as Eagle Scout, Senior Patrol Leader, Training Committee Chairman

Interests

Rock Climbing, Skiing, Fantasy and Sci-Fi books, Solving interesting math problems, Minecraft