

Cole Mathes

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Relevant Skills

- **Ability to set the tone of a community or team**
- **Project management and constructive leadership skills**
- **Attention to detail**
- **Relentless attitude to question and improve current systems**
- **Attention to big picture goals (i.e. the forest beyond the trees)**

Work Experience

Venture Out Virginia Tech, Blacksburg, VA

Student Staff, May 2022–Present

- High Ropes Course Lead Facilitator.
- High Ropes and Technical Rescue
- Whitewater Canoeing Trip Leader, Active Wilderness First Responder Certification, Outdoor Climbing Trip Leader
- 100+ Documented River Miles
- 100+ Documented Backpacking Miles
- Backcountry trip group management skills.
- Work with all ages (8 Years old - 60 Years old)
- Risk Assessment skills

Blacksburg Transit, Blacksburg, VA

Driver, May 2022–Present

- Hold a Class B commercial license with passenger endorsement
- Function well in high-stress situations

Residential Well-being, Blacksburg, VA

Student Leader for Inclusion and Belonging, August 2022–May 2023

- Help students develop communication skills to build relationships across differences
- Manage and resolve conflict among residents.
- Ensure a stable, safe, and welcoming student environment in the residence halls.
- Help academically, socially, or otherwise.

Virginia Tech Library, Blacksburg, VA

Project Internship, April 2022–September 2022

- Developing Hardware and Software to track and report long-term furniture usage in the library.
- Implementation of DeepSleep functionality on Arduino microcontroller for battery optimization. Prototyping was done in Python and then converted to C99.

Jefferson National Labs, Newport News, VA

Software Development Internship, August 2020–July 2021

- Travelerization Document Processor Development.
- Led a team of interns in the HSSP program.
- Began ER5C Database Migration for the transition from C75 and C50 accelerator projects.
- Performed overhaul on the Coldfusion form production system.

Network Data Systems, Hampton, VA

Part-Time Technician, August 2020–June 2021

- Helped implement Microsoft Azure international remote work infrastructure in GCC High tenant. (Including remote software deployment and monitoring)
 - Developed software to install and configure Windows-integrated RSYNC functionality using WSL 2.0. in Bash
 - Began implementing an Enterprise level and updated version of the open-source Big Sister Network Monitoring software in Golang
 - Installed networking hardware and cable for small businesses.
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Education

Virginia Polytechnic Institute and State University (Fall 2021-Fall 2023)

Bachelor of Engineering in Computer Science, Minor in Mathematics

GPA: 3.76/4.0

Relevant Coursework: Data Structures and Algorithms, Computer Systems, Science Writing from a Social Justice Perspective, Cryptography

Large Projects:

- I worked on a project to analyze water purification challenges with regards to PFAS for the Northwest Alaskan Inuit population. My team and I presented our findings to Inuit community leaders and tribal corporation leaders.

Warwick High School (Fall 2017 - Spring 2021)

High School Diploma

GPA: 4.53/5.0

Governors School for Science and Technology (Fall 2019 - Spring 2021)

Governors School School Diploma

GPA: 4.0/4.0

Relevant Course Work: Research Methodology and Ethics

Key Career Skills

- Expert project management skills
- In-depth understanding of most modern programming languages (Python, Golang, etc.)
- Experience working with deprecated programming languages (PERL, MSDOS, MATLAB, etc.)
- Conflict resolution experience
- Time management skills
- Intrinsically motivated
- Team management and coordination experience