

# Duncan Joly

joly0012@umn.edu • (612) 242-6979 • Minneapolis, MN • linkedin.com/in/duncan-joly • cs.umn.edu/~joly0012

## Education

**Bachelor of Science in Computer Science**

Expected May 2026

**Bachelor of Art in Asian and Middle Eastern Studies**

Expected May 2026

College of Science and Engineering and College of Liberal Arts, University of Minnesota - Twin Cities, Minneapolis, MN

- 3.42 GPA
- Related coursework: Python, Calculus II, Discrete Mathematics, Java, Advanced Programming Principles, Intermediate Arabic

## Skills

- **Technical:** Microsoft Windows, Linux/Ubuntu CLI, computer hardware knowledge, data collection and analysis experience, strong knowledge of office software (esp. Google Workspace suite), Visual Studio Code, IntelliJ IDEA, PyCharm, Postman (API Fundamentals Student Expert certification), Git, GitHub, scientific research, general-class amateur radio licensee
- **Programming languages:** Python, Java
- **Foreign language:** Arabic (Intermediate level), French (Intermediate level)

## Research Experience

**U of MN Networking Research Group - Minneapolis, MN - Undergraduate Research Fellow** February 2023 - Present

- Conducted networking efficiency research project using Python, published findings on arXiv (*arXiv.2311.10936*)
- Assisted Ph.D students with data analysis and system configuration in various projects, including academic research papers
- Accepted National Science Foundation "Research Experiences for Undergraduates" grant to continue research
- Developed technical research skills including literature reviews, project management, and data analysis

## Work Experience

**University of Minnesota - Twin Cities, Minneapolis, MN - Student A/V Tech**

September 2022 - Present

- Operated audio/visual equipment for events on campus, including research presentations, remote conferences, and film nights
- Assisted with equipment setup and operation and provided troubleshooting assistance to various clients

**Tech Academy, Little Canada, MN - Support Staff**

June 2021 - August 2021

- Repaired, reconfigured, and cataloged over 500 computers to ensure smooth classroom experience
- Improved and implemented inventorying process by installing and updating software with PDQ Deploy

## Leadership and Volunteer Experience

**Hack Club, Roseville, MN - Leader**

September 2021 - June 2022

- Designed curriculum for and provided support to 20-member chapter of Hack Club
- Instructed members on penetration testing techniques, including Kali Linux and Aircrack-ng, and use of GitHub and VS Code
- Created practice problems and example projects for members in Python and Java
- Collaborated with national organization leadership and school staff to ensure best experience for members

**Democratic Socialists of America (DSA) - Spoke maintainer, National Tech Committee member**

July 2021 - Present

- Designed, drafted, and implemented vetting process at the national level of the organization for future volunteers
- Maintained chapter Spoke deployment (mass-texting service) which contained contact information for over 1200 members

**RAHS Progressives - Leadership Committee, Social Media/Tech Leader**

Summer 2021 - Spring 2022

- Facilitated meetings with group members and local government officials, planned events, and recruited over 10 members
- Managed several social media pages and a website, along with online resources such as Slack and Google Suite
- Educated fellow high school students on politics and community opportunities in the Roseville and Minneapolis, MN areas

**ISD#623 LGBTQ+ Equity Committee - Member, Policy Review Group Leader**

Spring 2021 - Spring 2022

- Created and participated in committee focused on LGBTQ+ inclusion in district schools
- Facilitated partnership between teachers, school board members, and district administration to draft inclusion policy