Seattle, WA
206-953-6533
linusbrog@gmail.com

Linus Brogan

github.com/linusbrogan
linkedin.com/in/linusbrogan

Education

Lewis & Clark College — *Portland, OR*   **September 2018 - May 2022**
- Bachelor of Arts, Computer Science and Mathematics, minor in Physics
- Honors: *summa cum laude* (GPA: 3.99), Sigma Pi Sigma (national physics honor society)
- Scholarships: Neely Merit Scholarship, Templeton National Merit Scholarship

Work Experience

Peer Tutor | Lewis & Clark College — *Portland, OR*   **September 2019 – May 2022**
- Tutored math, physics, and computer science students.
- Identified specific topics to practice with students to clarify their understanding.

Summer Research Intern | Lewis & Clark College — *Portland, OR (remote)*   **May – July 2021**
- Researched secure computing system development through formal verification.
- Prototyped multithreaded prime number generator on seL4 microkernel and encrypted communication protocol for a networked thermometer device.

Software Engineering Intern | NCAR Earth Observing Laboratory — *Boulder, CO (remote)*   **May – July 2020**
- Developed a web interface using React and Highcharts to display diagnostic information so scientists can easily monitor their data acquisition systems.
- Presented a poster summarizing the project at NCAR's poster symposium.

Web Development Intern | Field Day — *Los Angeles, CA (remote)*   **May – August 2019**
- Modernized React date picker component in dashboard web app.

Program Instructor | The Mountaineers — *Seattle, WA*   **June 2017 – August 2018**
- Taught rock-climbing skills in summer camps and workshops for all ages.
- Supervised and ensured climbing-wall safety, and trained other instructors.

File Clerk | Siderius Lonergan & Martin, LLP — *Seattle, WA*   **April 2016 – August 2018**
- Organized office spaces to maximize productivity.
- Handled bank transactions, filing, sorting, and other errands to keep the office running smoothly.

Activities and Projects

Club Leader | Lewis & Clark ACM Student Chapter   **May 2019 – May 2022**
- Organized events, including talks and hackathons, with other members of Lewis & Clark's Association for Computing Machinery Student Chapter, increasing engagement with the Computer Science department.

Competitions
- Pacific Rim Collegiate Cyber Defense Competition   April 2020, March 2021
  - Configured Linux servers for security and reliability.
- National Cyber League   October 2020
  - Ranked in the top 10% across a range of cybersecurity skills.

Raytracer | github.com/linusbrogan/graphics   **May 2022**
- Developed a 3D rendering program in C, which supports various shapes with realistic lighting.

Tetris | github.com/linusbrogan/tetris   **December 2019**
- Implemented the classic game Tetris in Java with a team of several students.

Onion Forecast | github.com/linusbrogan/bonion   **December 2018**
- Built a website using Node.js and Docker to give a daily onion "weather forecast" for meals in Lewis & Clark's dining hall with data from its API.
- Worked in a team of students, winning second place in a Lewis & Clark hackathon.

Skills

Languages	Technologies and Tools
JavaScript, Java, C, HTML, CSS	Git, Node.js, Bash, Linux systems, React, Jupyter notebooks, Docker