

Brent Monning

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Education

B.S. Computer Science

Southern Oregon University - 3.2 GPA

09/2024 - expected 2028

High School Diploma

Ashland High School, Oregon

09/2020 - 06/2024

Projects & Experience

LiDAR Topography Research

06/2024 - present

Computationally cleaned and examined raster LiDAR images of north Curry County, Oregon, and Crater Lake National Park respectively, recorded in 2009-2010. Provided was a Digital Height and Surface models, which were used to cluster terrain features and correlate tree heights with terrain elevation.

Robotics Programming Lead, FRC Team 3024

10/2022 - 06/2024

Promoted as programming lead in May 2023, and was responsible for drive, vision, and autonomous subsystems, along with directing team members on how hardware would be implemented. Still volunteering to this day to assist and inspire students.

OSS Contributions on GitHub

09/2021 - present

Contributed to projects such as IINA: a media player for macOS utilizing MPV; and Topgrade: a tool for updating all software on a computer with a single command. Maintains some packages on the Nixpkgs repository.

GitBang

09/2022 - 01/2023

Graphical user interface client for the CLI version control system Git. Made in an effort to self-teach myself Flutter, and also to learn how to package applications for Windows, macOS, and Linux under both Snap and Flatpak.

Languages

Proficient: Python, Java, Rust, Swift, Dart, C++, JavaScript, TypeScript

Familiar: Haskell, C, Clojure, Nim, Zig, Common Lisp, Go

Technologies

Proficient: Nix, Linux, Git, Flutter, NumPy, SwiftUI, Ollama, AWS, Pandas, Transformers

Familiar: React, Astro, Vite