

Ben Aepli

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Education

A.B. in Mathematics, Minor in Computer Science, Princeton University – Princeton, NJ Aug 2024 – present

- Placed out of first year of computer science (COS126, COS217) with a "decisive A level performance"
- **Relevant Coursework:** Single-Variable Analysis, Algorithms & Data Structures

High School Diploma, Jackson Hole Community School – Jackson, WY Aug 2020 – June 2024

- GPA: 4.0/4.0, SAT: 1560/1600, ACT: 35/36
- **Relevant Coursework:** Linear Algebra, Multivariable Calculus, AP Calculus BC (5), AP Computer Science A (5)
- **Activities:** Student Government President, FTC Robotics Captain/Lead Programmer, Finance Club President

Experience

Paid Consultant, Teton County Government – Jackson, WY June 2024 – July 2024

- Wrote an internal visualization tool (complete with tabular data and a dynamic map) using React to help with analysis of Teton County projects
- Used ArcGIS's Maps SDK and component library to draw a map within the UI, as well as query hosted feature layers for relevant project information
- Designed a responsive user interface with Mantine and CSS

GIS Development Intern, Teton County Government – Jackson, WY Mar 2024 – May 2024

- Wrote internal scripts to modernize data management of Teton County's Capital Improvement Plan (CIP)
- Created a conversion pipeline using Python and Pandas to move from poorly designed Excel sheets to relational SQLite databases
- Designed scripts to facilitate easy updating of relational finance and geometric data of CIP projects
- Worked with ArcGIS, GeoPandas, and ArcPy to ensure all fields and geometric information (coordinate data etc.) imported correctly

Cashier, Aspens Market – Wilson, WY June 2023 – Aug 2023

Projects

EXAGE Aug 2022 – Dec 2023

- Developed a graphics engine with a full component/scene editor
- Utilized physically-based rendering, bindless resources, and shadow maps
- Created custom Vulkan abstraction that I also used for a path-tracer

Skills

Technologies: C++, Rust, C, Python, JavaScript/TypeScript, Java, HTML/CSS, SQL, R, React, Vulkan

Extracurricular Activities & Leadership

TigerApps Software Engineer Sept 2024 – present

Princeton PacBot Software Team Sept 2024 – present

Princeton RoboCup Software Team Sept 2024 – present

Princeton Competitive Programming Club Sept 2024 – present

Airplane Pilot Aug 2022 – present

- Earned Private Pilot's License at 17 (August 2023)
- Over 120 logged flight hours in Cessna 172s and Diamond DA40s

Awards and Honors

2024: National Merit Scholar

2023: AP Scholar with Distinction, National Rural & Small Town Recognition Award