

Turner Burchard

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WORK EXPERIENCE

onXmaps

June 2024 – August 2024

Data Engineering Intern

Bozeman, MT

- Developed a customer usage analytics dashboard with BigQuery, Python, Airflow and Machine Learning.
- Refactored a petabyte-scale ETL geospatial pipeline using Python, Go, and GCP.
- Optimized CI/CD workflows and infrastructure, cutting build times by 35% and expediting deployments.
- Earned a full-time hire recommendation for addressing challenges and collaborating across teams.

Montana State University

Aug. 2021 – May 2025

Teaching Assistant

Bozeman, MT

- Paid teaching and grading position for Machine Learning, Data Science, Compilers, and Honors Chemistry.
- Led weekly class sessions, tutoring up to 30 students as a group and 200 students one-on-one.

Quiq

May 2023 – March 2024

Backend Engineering Intern

Bozeman, MT

- Implemented LLM functionality in a high-throughput Scala backend for enterprise AI chatbots.
- Optimized chatbot workflows for real-time performance and reliability using cloud-based APIs.
- Contributed to REST API enhancements, improving chatbot customization and scalability.

Brightvine

Jan. 2022 – May 2023

Full Stack Software Engineering Intern

Bozeman, MT

- Led development of blockchain-based financial web apps as the senior engineer.
- Designed and implemented frontend (React) and backend (Go) components in a microservices architecture.
- Collaborated with a small team to build scalable, secure financial apps supporting blockchain technology.

D.A. Davidson

June 2017 – Aug. 2021

IT Risk Management Intern

Great Falls, MT

- Introduced Python automation to reduce a full summer project to weeks, achieving a 70% efficiency increase.
- Managed network proxy, email filters, and vendors for 3000+ employee finance company.

EDUCATION

Master's of Science, Computer Science

Aug. 2024 – May 2025

Montana State University

Bozeman, MT

- 3.9 GPA, Artificial Intelligence Certificate, Graduate Teaching Assistant, 10 graduate courses.

Bachelor's of Science, Computer Science

Aug. 2020 – May 2024

Montana State University

Bozeman, MT

- 4.0 GPA, *Summa cum laude* with honors, 157 credits.
- Presidential Scholar, National Merit Scholar, Honors College, MUS Honors, ACM officer, Research.

SKILLS, PROJECTS, & INTERESTS

- **Skills:** Software Development, Data, Backend, Communication, Debugging, GCP, AI, ML.
- **Technical Languages:** Python, Go, Java, JavaScript, SQL, PostgreSQL, React, C++, Git, Docker.
- **Projects:** turnerburchard.com/projects
 - Engineered a research search tool leveraging vector embeddings, machine learning, and LLMs with a Docker/Python/PostgreSQL backend processing hundreds of gigabytes and a responsive React frontend.
- **Interests:** Climbing, skiing, hiking, hacking, gaming, chess, photography.