

Thomas Caron

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Computer Science graduate with experience building and supporting full-stack and platform-style systems, translating technical requirements into reliable solutions. Interested in roles spanning software development, solutions engineering, and project or product-focused work, where technical depth, communication, and cross-functional collaboration drive impact.

EDUCATION

MONTANA STATE UNIVERSITY

Bozeman, MT

Bachelor of Science, Major in Computer Science - GPA: 3.01

AUGUST 2020 - December 2024

Relevant CourseWork: Data Structures and Algorithms, Calculus, Advanced Web Development, Compilers, Computer Systems, Computer Science Theory, Discrete Mathematics, Programming Languages, Database Systems, User Interface Design, Software Engineering, Systems Administration

RELEVANT EXPERIENCE

New England Ski Mapping Platform | Java, SpringBoot, Mapbox GL JS, GeoJSON, Go, Python

- Built an onX-style interactive mapping app using Mapbox GL JS with satellite/topo layers, dynamic route overlays, and a modular click-to-inspect UI for 100+ ski lines.
- Designed a geospatial data pipeline with Python scripts to convert KML/GPX files into validated GeoJSON and a structured metadata schema (difficulty, hazards, elevation, ratings, photos).
- Migrated backend services from Go to Java Spring Boot, enabling scalable cloud deployment and environment-aware frontend integration without disrupting production behavior.

Full-Stack Task Management Application | Python, Flask, Redis, SQLite

- Designed task management system with Redis caching layer for optimized data retrieval and SQLite persistent storage using Peewee ORM.
- Integrated OpenAI API for intelligent task recommendations and developed comprehensive testing procedures to validate system functionality.

Full-Stack Web Application | Next.js, React, TypeScript, Firebase, Google Cloud, Auth

- Built a full-stack content platform with Next.js 14 App Router and Firebase, implementing Google OAuth and email/password auth, Firestore-backed user profiles with Cloud Storage uploads, and per-user security rules
- Engineered real-time threaded comments, atomic bookmark and save-count updates via Firestore transactions, and sort-by-popularity; deployed to Vercel with GitHub CI and Mailchimp newsletter integration

TECHNICAL SKILLS

- Programming Languages: Java, JavaScript/TypeScript, HTML/CSS, C/C++, PHP, Python, R, Go
- Frameworks: SpringBoot, React, Next.js, Flask, Bootstrap, Tailwind, geojson, JSON, Mapbox
- Database Experience: PostgreSQL, MySQL, SQLite, Firebase
- Tools: Git, Google Cloud Platform, Redis

ADDITIONAL INFORMATION

- Sigma Chi Fraternity (Vice President)
 - Led cross-functional teams in weekly executive meetings, managing priorities, schedules, and strategic planning initiatives
 - Coordinated \$30,000+ fundraising campaign for Huntsman Cancer Institute, demonstrating project management and stakeholder communication