

# 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

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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

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**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

- Designed a responsive food review and blog website using React, TypeScript, and Tailwind CSS, featuring dynamic content loading from Firebase Realtime Database for user-submitted reviews and culinary stories
- Leveraged Firebase for real-time data synchronization and Google Cloud for scalable hosting and deployment

## TECHNICAL SKILLS

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- Programming Languages: Java, JavaScript/TypeScript, HTML and CSS, C/C++, PHP, Python, R, Go
- Frameworks: SpringBoot, React, Next.js, Flask, Bootstrap, Tailwind, AWS, geojson, JSON, Mapbox
- Database Experience: PostgreSQL, MySQL, SQLite, Firebase, CSV
- Version Control: Git

## ADDITIONAL INFORMATION

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- 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