

Stephen Brook

I am a dedicated and resilient individual with a strong ability to perform effectively under pressure. I am seeking a position in the computer science industry to expand my expertise and gain valuable experience in professional, fast-paced environments.

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Education

Montana State University Bozeman, MT — B.S. Computer Science – Expected Graduation Fall 2025, GPA: 3.92

Projects:

Stochastic Gradient Descent: Designed and implemented a stochastic gradient descent algorithm to power a real estate housing price estimator, processing input vectors to accurately predict price outputs.

Software Engineering: Partnered with stakeholders to gather and refine requirements for a customizable, reusable grading calculator. Designed UML class and sequence diagrams, developed the application within a two-week timeline, and collaboratively created and executed a comprehensive test plan to ensure functionality and accuracy.

User Interface and User Experience Development: Collaborated with stakeholders and conducted demographic surveys to design and develop a task-tracking application, applying usability principles and heuristic analysis to ensure an intuitive and efficient user experience.

Database Systems: Played a key role in developing a dynamic, music-focused web application, leveraging Java for backend logic, SQL for database management, and Redis for efficient caching and data retrieval.

Employment Experience

Montana State University Student Housing Bozeman, MT — Desk Clerk, Desk Clerk Mentor

October 2022 - Present

Traversed and edited databases to ensure accurate representation of current information.

Coordinated and enforced building wide safety, security, and emergency protocols.

Led training seminars, mentored small groups of peers, ensured effective communication between teams.

Target Douglas County, CO — Inbound Expert, General Merchandise Expert, Inventory

November 2021 - January 2024

Utilized inventory management systems to process inbound shipments, manage and sort stock levels, and generate reports.

Coursework

Software Engineering

Database Systems

Data Structures & Algorithms I & II

User Interface & User Experience Development

Discrete Structures

Computer Security

Web Development

Computer System Architecture

Calculus I & II

Linear Algebra

Mathematical Logic & Proof Techniques

Technical Writing

Public Speaking

Skills

SQL, NoSQL, Python, Java, Go, C, C++, HTML, CSS

UML and ER Diagramming

Data Structures and Algorithms

Discrete Mathematics

Technical Writing

Public Speaking