Anna Thompson

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EDUCATION

Colorado State University   **August 2021 – Expected May 2025**
B.S. in Computer Science   *Fort Collins, CO*
- 4.0 GPA.
- Recipient of the Green and Gold Merit Scholarship.
- Relevant Coursework: Data Structures, Algorithms, Computer Organization, Operating Systems, Software Development, Object-Oriented Design, Linear Algebra, Calculus

PROJECTS

Chess Platform:
- Worked with a team of peers to develop a chess playing platform, enabling players to create profiles, challenge opponents, and create matches.
- Focused on scalable and maintainable system design using established design patterns.
- Implemented unit testing to ensure the application is reliable and performs well.

Trip Planner:
- Worked with a team of peers to design and develop a trip planner application focused on optimizing travel routes across multiple destinations.
- Enabled users to select destinations on a map and used algorithms to calculate the most efficient route.
- Utilized a comprehensive airport database to enhance search accuracy and user experience.

Home security system using a Raspberry Pi:
- Led a team of two other people: delegated tasks, helped teammates debug, organized meetings, etc.
- Designed a security system using Python that uses a camera module to detect faces and record when one is in frame.
- Implemented the OpenCV library which uses computer vision and machine learning to detect faces.

WORK EXPERIENCE

Sierra Nevada Corporation   **May 2024 – August 2024**
Tech Systems Intern   *Lone Tree, CO*
- Developed an application in C# within the .NET framework to assist engineers in performing frequently used electrical calculations, improving accuracy and efficiency.
- Utilized object-oriented programming principles to structure the application, ensuring maintainability and scalability of the codebase.
- Designed a user-friendly interface with dropdowns, input fields, and validation to ensure accurate data entry.
- Wrote unit tests to validate functionality and ensure software reliability.

SKILLS & INTERESTS

Skills:
- Experience in programming languages: Java, C/C++, C#, JavaScript, Python, Julia, HTML/CSS, Dart
- Technologies/Frameworks: Linux, Unix, Git, GitHub, .NET, React, JUnit, Microsoft Office, Flutter
- Problem solving; quick and eager to learn; attention to detail; creativity; organization; communication

Interests: Reading; weight lifting; hiking; skiing; painting; swimming; crocheting; music.