

Nathan Crane

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Work Experience

Computer Science Department (CSU), Fort Collins, CO

August 2025 – Present

Teaching Assistant

- Exhibited strong technical communication skills by decomposing computer science fundamentals for new students.

Union Election Stats (CSU), Fort Collins, CO

May 2025 – Present

Software Engineer/Research Assistant

- Applied software design knowledge to translate client specifications into user stories.
- Displayed creativity developing site mockups in Figma.
- Engaged in an agile development process, utilizing one week sprints to facilitate iterative development and team flexibility.
- Hosted an apache server on CentOS, hardened with tools such as ModSecurity and Fail2Ban.

Men's Wearhouse, Fort Collins, CO

August 2024 – May 2025

Customer Service Representative

- Promoted to a new role overseeing store operations during peak hours due to reliability and strong organizational skills.
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Education

Colorado State University, Fort Collins, CO

December 2025

BS, Computer Science ~ Software Engineering Concentration

GPA: 3.07

Minor, Business Administration

- Dean's List: Fall 2023, Spring 2024
 - Selected Coursework: Software Engineering, Object Oriented Design, Software Testing, and Modern Web Applications.
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Technical Projects

Artificial Intelligence (AI) Road Mapping for the U.S. Forest Service,

April 2025

- Utilized Python and TensorFlow to develop a Machine Learning (ML) model, which took multimodal geospatial data to produce a road mapping prediction.
- Fostered a collaborative atmosphere to ensure team cohesion and productivity.

GMFinancials AI Security Fix Pipeline,

March 2025

- Utilized Azure Devops to create a Continuous Integration Pipeline that detected cybersecurity faults with SonarQube and fixed them with GPT-4.

Asynchronous Chess Application,

August 2024 – December 2024

- Exemplified abstract thinking in developing a scalable app architecture.
 - Displayed full stack proficiency, connecting a Java backend to a React based frontend using a RESTful API.
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Skills

- **Languages and Frameworks:** Java, C++, Python, PostgreSQL, Bootstrap, and React.
 - **Miscellaneous Tools:** GitHub, Figma, JUnit, Slack, Microsoft Teams, and Linux.
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Extracurricular Activities

- **CSU Concert Choir**
 - **DevNet at CSU**
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