

# Caden McArthur

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NASA Space Apps Award Winner

## EDUCATION

### Bethel College

North Newton, Ks

*Bachelor of Science in Computer Science, Minor in Mathematics*

## EXPERIENCE

### Front-End Software Engineer Intern

May 2024 – Aug. 2024

*Leggett and Platt - Docker, React, .Net, TypeScript/Javascript, Tailwindcss, SCRUM, DevOps*

*Lenexa, Ks*

- Developed React components for an internal home furniture application, streamlining business operations by helping transition from spreadsheet-based record-keeping to a more efficient digital solution
- Implemented in-platform communication features, enabling users to interact directly on the website, eliminating the need for external services.
- **Integrated multi-language support** for communication features ensuring the platform could be utilized by international branches across various regions

### Information Technology Technician/Software Developer

Jan. 2024 – Present

*Bethel College - Docker, React, Node, MySQL*

*North Newton, Ks*

- Coordinated with managers to build new independent, full stack careers site application to replace old legacy site.
- Diagnosed and resolved computer issues for students, faculty, and staff, providing timely and effective technical support across campus.
- Managed the maintenance and upkeep of over 200 devices, including computers, classroom equipment, and the campus-wide internet network, ensuring optimal performance and reliability.

### Artificial Intelligence Research Internship

May 2023 – Dec 2023

*Bethel College - Python, Tensorflow, Matplotlib,*

*North Newton, Ks*

- Conducted in-depth research on the integration of Artificial Intelligence in social media platforms, leading efforts to analyze and understand AI-driven features and innovations.
- Developed 3 applications involving TensorFlow, Google Gemini, and PyTorch, to demonstrate the technologies
- Delivered a presentation on research findings to over 100 students, faculty, staff.

## PERSONAL PROJECTS

### Solar Eye | *React, Three.js/WEBGL, GLSL,*

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- \* Built a solar system simulator using data from NASA API's to display orbits of near earth objects and teach users about orbital parameters and the dangers of near earth asteroids. Received multiple NASA awards.

### Course Search | *React, Node, MySQL*

May 2024 – August 2024

- \* Developed a course search application for Bethel to allow students to better find buildings and rooms on campus.
- \* Utilized React libraries to provide users with maps of campus. And provided all information related to a course they are searching for, such as class schedule, course instructor, area of study. 300 unique searches on launch

### BCSocial | *React, Node, MySQL, Docker, Project Management, JIRA*

Aug 2024 – Present

- \* Built a social media app to allow student organizations to better communicate to students about events on campus. Managed project development using SCRUM and set user stories for each member every week

## LEADERSHIP

### Bethel Software Society - Founder, President

- Established Bethel College's inaugural software club, providing mentorship to guide students toward successful post-graduation careers in the tech industry, and represent Bethel in hackathons around the area. Developed a range of projects, from simple web applications to software solutions currently in use by the school. Received multiple awards at hackathons

## TECHNICAL SKILLS

**Languages:** Python, JavaScript/TypeScript, HTML/CSS, C, SQL

**Developer Tools:** Git, Docker, Visual Studio Code, Microsoft SQL Management Studio, DevOps

**Libraries/Frameworks:** Pandas, NumPy, Matplotlib, TensorFlow, Flask, React, Angular