

Phoenix Campbell

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Education

Dakota State University

Madison, SD

Bachelor of Science in Computer Science

May 2026

- Honors: Dean's List, President's Academic Honors List
- Relevant Coursework: Data Structures and Algorithms, Discrete Mathematics, Networking, Object-Oriented Programming, C++ Programming
- Project Manager
- Certifications: Cybersecurity (DSU), Software Development (DSU)

Technical Skills

Languages: C, C++, Python, JavaScript, Rust

Frontend: React, Next.js, HTML

Backend: Node.js, Express, Server Administration

Developer Tools & Platforms: Git, Linux, Docker

Relevant Experience

Software Engineer

Feb 2024 – Jan 2025

Outlier (Scale AI)

- Diagnosing and resolving complex programming issues, enhancing overall code quality
- Creating over 20 human-readable summaries of complex coding problems to enhance documentation clarity, improving overall team productivity
- Composing detailed, human-readable summaries to streamline knowledge transfer between teams

Data Science and Engineering Intern

Indore, India

Oeson Learning

Nov 2023 - Feb 2024

- Utilized Matplotlib, Seaborn, and Plotly libraries to visualize data and draw actionable insights

- Implemented Machine Learning algorithms to analyze datasets exceeding 1 million records
- Created a chatbot AI and improving baseline accuracy by 20%
- Executed the comprehensive collection and processing of a 5,000-image database, ensuring precise labeling and organization
- Enhanced the machine learning model's training efficiency by 30% and increased overall processing speed
- Received a letter of recommendation for outstanding performance

Interpersonal Experience

Manager

Spirit Lake, IA

JMD Ventures

June 2019 – Present

- Holding a management position for over five years
- Supervising and training a team of 8+ employees, optimizing stock management and enhancing overall workflow productivity by 25%
- Maintaining and organizing a stock of over \$15,000 with biweekly intake and export

Projects

OCR – Optical Character Recognition Using AI

neural networking, backpropagation, fullstack

- Built an end-to-end ANN to take in hand written data from users to train and/or test an OCR.
- Developed and honed a neural network for optimal hardware usage and resource management.

Faculty Match Solver – University Professor / Class Pairing

Node.js, Python, Docker

- Lead a team of five in a project aimed to correctly and accurately match University staff to classes they are best suited to teach.
- Combining a solving algorithm and strict filters, individual professors are able to more accurately be assigned classes they are qualified for, increasing quality of classes for students and lightening the burden on staff.
- Currently being used by our University as a finished project.

Home Lab / Media Server – Administration

docker, troubleshooting, VPN tunneling, Virtual Machine handling, SSH

- Maintaining, organizing, and administrating my own home lab including over 50+ TB of data. This includes writing and automating scripts to help aid in the process.
- Administrating over multiple users and monitoring privileges as well as self-testing security of home network.
- Files categorized and monitored includes security camera network, media files, 3D modeling, and Virtual Machine ISOs.
- Secured and strengthened connectability to home server through Tailscale VPN to allow secure and safe access to home server anywhere in the world without exposure through port mapping.

Skills

- **Hospital Administration:** Experience maintaining and troubleshooting a hospital system including confidential patient information, HIPAA compliance, and optimization of doctor to patient care.
- **Cybersecurity Concepts:** Over 4 years of experience in cybersecurity and software development.
- **Technical Skills:** Proficient in JavaScript, C++, Rust, and Python; extensive experience in data analysis and data science using Microsoft Excel, and various machine learning libraries such as TensorFlow and Keras; Adept in deep learning, software development, system design and architecture.
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- **Team Leadership and Management:** Supervised and trained teams, enhancing productivity and efficiency.
- **Problem Solving and Troubleshooting:** Deployed and managed 2 virtual machine environments at DEFCON, showcasing advanced problem-solving and troubleshooting skills.
- **Quantum Computing Foothold:** Recommended by professor for flagshipping the university's minor in quantum classes Fall 2025.
- **Server Administrator:** Maintaining, running, and updating 50TB+ home lab and server since September 2024.
- **Operating Systems:** Knowledgeable in both Linux and Windows operating systems.

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