Zachariah Craven

zachariah.craven@student.montana.edu | Bozeman, MT

Computer science graduate student at Montana State University with a strong interest in backend development. Aiming to gain practical experience in developing APIs and managing third-party service integrations.

EDUCATION

Montana State University, Bozeman, MT   January 2024 – Current
Master of Science in Computer Science, GPA 4.0
- Relevant Coursework: Algorithms, Security, Compilers, Databases, Computer Systems, Software Engineering, Data Mining, and Computational Biology.

Montana State University, Bozeman, MT   May 2021
- *Bachelor of Science in Cell Biology and Neuroscience*

TECHNICAL SKILLS

- Proficient in Java, Python, SQL, Git
- Familiar with C, JavaScript, GitHub
- Exposed to Docker, Kubernetes, Go, Bash

EXPERIENCE

Montana State University, Bozeman, MT   October 2024 – August 2025
Network Analyst
- Assisted in deploying Cisco networking equipment, applying configurations and troubleshooting current networking infrastructure.
- Automated network configuration by developing Python scripts transforming YAML data for Ansible, reducing manual entry errors and deployment time.

Cascade County, Public Health Dept. Great Falls, MT   July 2022 – January 2024
Environmental Health Specialist
- Maintained data to support program improvement initiatives and managed detailed reporting for regional establishments using internal software tools.
- Collaborated with diverse teams to deliver educational content and enhance public relations efforts, building strong connections and increasing outreach.

Benefis Health System, Great Falls MT   June 2017 – February 2022
Certified Nursing Assistant
- Provided communication with patients, families, and healthcare teams while logging accurate medical chart data in a high-volume hospital environment.

Projects

Cat-Script Compiler
- Implemented a small compiler for a scripting language in Java, through recursive descent parsing. Covering areas of tokenizing, parsing, semantic analysis, optimization, synchronization, and JVM bytecode while also providing comprehensive system testing for each of the areas.

Vet-Clinic App
- Currently helping to build an academic software application with a research group to aid students in learning web development. Project uses Javalin web framework, Custom JLine terminal, custom template engine, and SQLite.