

Alex Hunt

www.alex-eugene-hunt.rocks

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Education

University of California, Berkeley
Master of Information and Data Science

Berkeley, CA
Expected Dec 2025

University of Oklahoma
Master of Computer Science
GPA: 3.9 / 4.0

Norman, OK
Jan 2024 - Dec 2024

- Paper Defense: *PyTond: Efficient Python Data Science on the Shoulders of Databases*
- Masters Project: *Improving Drone Flight Paths with Machine Learning* - Developed **ML models** to **optimize drone navigation**, reducing flight traversal time by **10%**.

University of Oklahoma
Bachelor of Computer Science
GPA: 3.83 / 4.0

Norman, OK
Oct 2020 - Dec 2023

Experience

CymSTAR LLC
Software Engineer Intern

Broken Arrow, OK
Feb 2024 - Dec 2024

- Standardized the development environment by implementing **containerized deployments** for **Python** and **C++** applications, ensuring consistency across multiple teams.
- Developed **Docker and Podman containerization strategies**, eliminating configuration conflicts and reducing deployment overhead by **80%**.
- Resolved **CI/CD pipeline issues** and optimized **GitLab Pipelines**, cutting build times by **70%** and increasing deployment reliability.
- Optimized **GitLab Runner configurations** to enable **parallel builds**, improving build efficiency by **50%**.
- Developed and integrated **automated unit and integration testing frameworks (PyTest, GoogleTest)** for Python and C++, enhancing code reliability and **test coverage by 30%**.
- Automated **Redmine ticketing system** by integrating **GitLab merge request APIs** with **C# and .NET**, eliminating all manual updates and improving team workflow efficiency by **100%**.

Projects

Full-Stack Personal Website - www.alex-eugene-hunt.rocks

<https://github.com/alex-eugene-hunt/MERN-FullStack-Website>

- Developed a **MERN stack** personal website using **MongoDB, Express, React, and Node.js**.
- Fine-tuned a **LLM model** to provide dynamic responses to user inquiries, improving engagement.
- Implemented **Nodemailer** to create an email submission form for **direct user communication**.
- Integrated a **MongoDB-backed Asteroids game** with a **global leaderboard** for interactive user engagement.

Meteorite Landings Data Mining Application

<https://github.com/alex-eugene-hunt/SoftwareProject-College-OU-CS5593>

- Developed a **Python-based machine learning** application for **classifying meteorite landings**.
- Built **clustering models** leveraging **geospatial data**, identifying high-impact landing zones.
- Designed a **GUI-based visualization tool**, enabling **interactive exploration** of meteorite datasets.

Technical Skills

- **Programming Languages:** Python, C++, Java, R, JavaScript (Node.js, React), C, C#, HTML/CSS
- **Machine Learning & Data Science:** TensorFlow, scikit-learn, Reinforcement Learning, Data Visualization
- **DevOps & Tools:** Git, Docker, Podman, GitLab CI/CD, Kubernetes