

CAMEREN GREEN

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LinkedIn: [linkedin.com/in/cameren-green](https://www.linkedin.com/in/cameren-green)

GitHub: github.com/CamerenGreen

My Portfolio: camerengreen.github.io

EDUCATION

University of Kansas | Lawrence, KS

Aug 2023 - May 2027

Bachelor of Science (B.S.) in Computer Science | GPA: 3.3

Relevant Coursework: Embedded Systems, Discrete Structures, Software Engineering, Probability and Statistics, Programming Paradigms, Intro to Theory of Computing

WORK EXPERIENCE

Desk Asisstant | University of Kansas | Lawrence, KS

Jan 2023 - Present

Responsible for security, customer service, and administrative support to students and visitors

PROJECTS

Flick Picker - ML Based Media Recommender (C++, Python, PyTorch)

Jan 2024 - Mar 2025

Source Code: github.com/CamerenGreen/Flick-Picker

Recommends movies/shows based on a user's viewing history, based on TMDb data

- Developer team lead in the project's hybrid Machine Learning recommendation engine
- Implemented a machine learning model to store recommendations and relevant information for users
- Created a Python-C++ bridge using pybind11 to connect ML models with the extension's frontend

BlockPulse - Active Crypto Price Tracker (JavaScript, HTML/CSS, Node.js, JSON)

Mar 2025 - Present

Source Code: github.com/CamerenGreen/BlockPulse

A real-time dashboard that displays live cryptocurrency prices.

- The sole developer of a cross-platform application integrating Node.js backend with a secure architecture
- Reduced API calls by 40% through smart caching and request batching while maintaining real-time accuracy
- Achieved sub-200ms cold start time through V8 code caching and lazy-loading non-critical modules

VisionEQ - Hand Gesture-Controlled Audio Web App (JavaScript, HTML/CSS)

Apr 2025

Source Code: github.com/CamerenGreen/VisionEQ

An interactive web tool that allows a user to input and control audio equalizer components

- Spearheaded a team to engineer a multi-mode control system using video camera object detection
- Optimized performance-critical computer processing to achieve hand tracking with 95% recognition accuracy
- Designed an intuitive user interface that reduced user learning time by 45% in testing with 30% reduced latency

Self Operating Lidar Vehicle Braking System (Python, C, RaspberryPi, HiFive)

Feb 2025 - Apr 2025

An embedded system prototype for an autonomous vehicle's functions

- Designed and developed real-time measurement logic to trigger multi-level braking systems
- Integrated a Deep Neural Network model from video input via UART between a Raspberry Pi and a microcontroller
- Led a 2-person team to deliver a full-stack prototype with a 100% demo success rate in 10+ test scenarios

SKILLS

Programming Languages: Python, Java, C, C++, {Java/Type}Script, MongoDB, {My}SQL, Tableau, Rust, Node.js, HTML/CSS, Angular, Arduino

Frameworks and Tools: TensorFlow, PyTorch, NumPy, React, Docker, Git/Github, Linux (Embedded), MATLAB, Bash, Microsoft Office, Excel

Embedded Systems: UART, Raspberry Pi, HiFive (RISC-V), Sensor Fusion (Lidar), Interrupt-Driven Design, ARM Cortex

Software Engineering: Full-stack development, REST APIs, CI/CD, Microservices, Agile/Scrum, Unit Testing

AI and Applied ML: Computer Vision, DNNs, Data Pipelines, Model Deployment, Data Visualization (Matplotlib/Seaborn)

Cloud and DevOps: Serverless, AWS/GCP, Firebase, SQL/NoSQL (PostgreSQL, MongoDB)

To check out more information regarding my projects, check out my portfolio here -->

