CAMEREN GREEN

Lawrence, KS • 402-591-0661 • cgreen7241@ku.edu

LinkedIn: 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 Google Chrome Extension (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/CSS, C++, Python) **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 Driving LiDAR Vehicle (Python, C, RaspberryPi, HiFive) **Feb 2025 - Apr 2025**

Source Code: github.com/CamerenGreen/VisionEQ

An embedded system prototype for autonomous vehicle 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 100% demo success rate in 10+ test scenarios

SKILLS

Programming Languages: Python, Java, C, C++, {Java/Type}Script, SQL, Rust, Node.js, HTML, CSS, Arduino, VHDL
Software Engineering: Designing and implementing full-stack applications, tools, and real-time systems across various bases. I've led team-wide and cross-team, multi-quarter efforts and have experience designing new, unique systems.
Applied ML: Machine learning and its applications, including computer vision, media processing, and machine translation, using libraries such as Tensorflow and PyTorch
AI Research and Design: Researched and designed artificial intelligence systems using machine learning models, such as neural networks, as well as classic AI approaches

To learn more about me and some of my projects, please visit: http://camerengreen.github.io