Kushal Dhakal

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PROJECTS

Hotkey Event Manager — C, win32

- Built GUI to monitor hotkeys using Win32 API with background multi-threading.
- Logged key press counts to a file (counter.txt) for persistent tracking.

Real Time Note Detection Tool - Python, Numpy, PyAudio, Aubio

- Python application to capture live audio input and perform real time pitch detection.
- Optimized performance to achieve < 100ms latency in continuous audio streams

Front-End Web Projects - HTML, JavaScript, CSS

- Custom Start Site — Bookmark bar, embedded search, dynamic photo gallery.
  - https://dhakal-kushal.github.io/LandingWeb/
- Portfolio Site - Responsive portfolio site with accordion style UI, optimized performance with lazy loading for gif demos, and Consistent visual design.
  - https://dhakal-kushal.github.io/Portfolio-Site/.

EDUCATION

University of Central Florida   **May, 2027**

B.S Computer Science   *Orlando, FL*

- Passed Computer Science Foundation Exam, covering Fundamentals, Data structures, and Algorithms
- Relevant Coursework:
  - Developed components of a compiler including a lexer (Flex), parser (Bison), and code generator. Designing grammar rules token definitions and translating high level constructs into intermediate code.
  - Machine Learning: Linear regression (gradient descent), Logistic regression (L2 reg), Gaussian Naïve Bayes, Support Vector Machines (linear & RBF).

SKILLS

Skills: ML (scikit-learn, PyTorch), Data Structures & Algorithms, Web Dev, App Dev, Git

Languages: C, C++, C#, Python, Java, JavaScript, HTML/CSS

WORK EXPERIENCE

Target Corporation   **March, 2023 - Present**

Front of Store Attendant

- Managed transactions and provided customer support in a fast-paced environment.
- Collaborated with team members to ensure efficient store operations.