Manu Deva

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EDUCATION:

Northwestern University – BS in Computer Science, Major GPA: 3.43 **Expected May 2025**

- Coursework*:* Databases and Computer Systems, Data Structures and Algorithms, Machine Learning, HCI
- Minor in Economics – Econometrics, Microeconomics, Macroeconomics

EXPERIENCE:

Chief Technology Officer, Student Holdings **Oct 2022 – Present**

- Managed new technology and Zapier workflow integration in a portfolio of 4 student-run businesses to assist in the generation of $100,000+ in annual revenue.
- Led development of interactive, client-side React application with Firebase backend for residential laundry service catering to 40+ students.

App Developer, ORCO – The Garage at Northwestern **Apr 2023 – Sep 2023**

- Developed an executable Electron and React desktop application, designed in Figma, for control and visualization of arm prostheses in research and daily use.
- Maintained company website and product documentation to connect the startup to new investors and markets, secure funding with an NSF research proposal, and contribute to brand amplification.

Store Generalist, Macy's Inc **Jun 2022 – Sep 2022**

- Delivered excellent customer service and addressed technical issues to enhance shopper experience and transact up to $2,000 daily business on an individual level.
- Efficiently recovered and stocked back-end and on-floor inventory to ensure a professional retail environment and support $30,000+ in daily departmental sales.

PROJECTS:

PAM, Intelligent Information Systems **Oct 2023 - Present**

- Develop a large language model to act as a virtual receptionist for Northwestern's Computer Science department that streamlines access to information on professors and department events, deployed as a Flask application on an EC2 instance.
- Integrate OpenAI's LLM with Hugging Face embeddings and an SQLite3 database, implementing a conversational retrieval chain with speech recognition to maintain contextual awareness and provide realistic interaction.

IntervU, HackMIT 2023 **Sep 2023**

- Worked with 3 other students to develop a Python program that uses computer vision algorithms to track an applicant's body posture, expressions, and eye movements to encourage appropriate body language during an interview.
- Trained a TensorFlow posture detection model and designed/deployed React frontend and Flask backend.

OptiSkate, DTC-II **May 2023**

- Designed and rapidly prototyped an obstacle detection system using a Raspberry Pi, LIDAR sensor, and light feedback for skateboards in low-light environments.

TECHNICAL SKILLS:

- **Languages:** Python, JavaScript, C++, C, SQL, Java, HTML, CSS, Scala, Racket, MATLAB
- **Developer Tools:** Git, GitHub, AWS, GDB, Bootstrap, Linux, Figma, Tableau, Jira
- **Frameworks:** React, NodeJS, REST APIs, Next.js, Express, MongoDB, Flask, NumPy, Agile, Jupyter Notebook

ORGANIZATIONS:

Interactives Editor, North by Northwestern **Sep 2023 – Present**

- Lead and collaborate with a team of writers and developers to publish interactive stories using HTML and JavaScript modules to engage an audience of 8,000 students with digital multimedia journalism.

Project Developer, ML/AI Team, IEEE NU Chapter **Nov 2022 – Apr 2023**

- Designed food classification algorithm using CNNs and Python/Jupyter workflow for an IEEE project showcase.

Active Member, Lambda Chi Alpha Fraternity