Aidan Andrews

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Education

University of Illinois at Urbana-Champaign

Bachelor of Science in Physics-Computer Science Track, Minor in Computer Engineering — *Expected 2027 GPA: 3.8*

Master of Science in Computer Science — *Expected 2028 GPA: 4.0*

Experience

NVRALONE — March 2023 – Present

FOUNDER, CEO, CTO — *Los Angeles, CA & Cedar Rapids, IA*

- Oversaw all aspects from design to shipping, including web development, financial management, marketing, and product development, organized in-person projects like pop-up shops, and managed a team of 20 employees

Amara Andrews Mayoral Campaign — May. 2022 – Nov. 2022

Mayoral Campaign Volunteer — *Cedar Rapids, IA*

Project Manager for CS124 Honors — Dec. 2023 – May. 2024

Lead and coach current students to develop a full-stack app — *The University of Illinois at Urbana-Champaign*

Course Assistant CS124 — Dec. 2023 – May. 2024

Teach and tutor current CS124 students — *The University of Illinois at Urbana-Champaign*

Extracurricular Activities

SIGAIDA — August 2023 – Present

Member — *UIUC*

- Researched VGG-19 deep learning architecture, transfer learning techniques, and a custom sequential classifier

Chess — June 2019 – Present

Rated 2000 over-the-board — *Online/Over-the-board*

- Placed third in all-school chess tournament, participate in online tournaments, study puzzles, and play consistently

Elite Athlete — Sep. 2013 – May 2023

Division 1 Level Ice Hockey Player — *Boston Hockey Academy*

- Competed with and against NHL prospects and Division 1 commits, and played for a top 30 team in the country

Projects

Devanagari Language Learning App | *Python, Flask, TensorFlow, Keras, scikit-learn, Pandas, NumPy, Matplotlib*

- Engineered a sophisticated Convolutional Neural Network (CNN) to accurately recognize natural handwritten language
- Enhanced model performance and accuracy through meticulous data preprocessing and augmentation techniques, ensuring robustness against diverse handwriting styles.
- Optimized training efficiency with advanced algorithms for back-propagation and gradient descent, significantly reducing computational time and resource usage.
- Integrated the CNN into a web-based interface, enabling real-time language recognition and providing immediate feedback to user inputs.

VoxAI: The Autonomous Learning Assistant | *Google Cloud Services, Linux, GTK, Ubuntu, PyDub, Python*

- Engineered a full-stack Linux-based application on NVIDIA Jetson Nano, utilizing ML to enhance my studying experience.
- Seamlessly integrated RNNs and Transformer Model APIs for advanced speech-to-text transcription and text-to-speech AI communication.
- Capable of recording, transcribing, summarizing, and teaching lectures in real-time, tailored for enhancing lecture comprehension for increased study efficiency.
- Implemented the functionality of speaking directly to GPT-4, with access to a database of all lecture transcriptions to curate custom study material, and answer relevant questions.
- Innovated in hardware-software compatibility, developing a screen-free, standalone device to facilitate autonomous operation and user accessibility.

Technical Skills

Languages: Java, Python, C/C++, Kotlin, JavaScript, HTML/CSS
Developer Tools: Git, Linux, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Android Studio
Libraries: TensorFlow, Keras, scikit-learn, OpenAI, Pandas, NumPy, Matplotlib

Other

Clubs/Organizations: James Scholar, National Society of Black Engineers (NSBE), Morrill Engineering Program (MEP)
Interesting Fact: Suffered a Brachial Plexus injury of the C4/C5 nerve resulting in temporary paralysis/brain damage
Interesting Fact: My CS 124 Honors project was inducted into the course Hall of Fame
Current Courses: CS 128, CS 173 (Discrete Structures), CS 128 Honors, CS 173 Honors, Physics 211, Calculus II, RHET 105