KENNY NGUYEN

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EXPERIENCE

Software Engineer Intern - EpiBuild **Jan 2025 — Current**

- Automated clinical data processing using Google Apps Script to extract and noramlize chart data from Google Sheets
- Developed custom regex-based logic to identify and correct inconsistent or ambiguous clinical terms
- Automated billing to insurance to supply revenue to the company

Computer Helpdesk Technician, Pacific University **Oct 2021 — May 2023**

- Repaired computer/laptop parts for university faculty/students
- Troubleshooted computational errors, restoring devices to functional state
- Oversee daily performance of computer systems, including setup of electronic equipment
- Performed proper installation of cables, operating systems, or appropriate hardware/software

Remote Software Developer - AI Training, Outlier AI **May 2024 — Jan 2025**

- Evaluated quality of AI-generated code, providing detailed human-readable to improve model performance
- Wrote functional and efficient code to contribute to the training of generative AI models
- Utilized Java, Python, JavaScript, and C++ to support AI training Projects
- Communicated complex scientific concepts effectively, enhancing understanding and collaboration within the team

PROJECTS

EmoScanner | Human Facial Emotion Recognition **Apr 2024 — Jun 2024**

- Designed and trained a CNN model to recognize human facial emotions (happy, sad, angry, scared, etc.) using the FER-2013 dataset, achieving an accuracy of 78%
- Processed and augmented image data to handle variations in lighting, facial expressions, and occlusions
- Integrated data augmentation, dropout, and batch normalization to prevent overfitting and optimize model performance
- Utilized TensorFlow, Keras, and OpenCV for model development, training, and image processing
- Used transfer learning from VGG16 and leveraged their feature extraction capabilities to improve the model

Four's & Nine's | Handwritten Digit Recognition **Dec 2023 — Feb 2024**

- Developed a Convolutional Neural Network to accurately distinguish between handwritten digits of 4 and 9, achieving an accuracy of 98%
- Implemented data preprocessing techniques including normalization and augmentation to enhance model performance and robustness
- Utilized TensorFlow and Keras for model development and training, optimizing hypterparameters for improved accuracy
- Added dropout layers and L2 regularization to combat model overfitting
- Estimated model confidence using softmax output and bootstrapping methods for confidence interval

Noir | Windows 10 Notepad Clone **Sep 2023 — Oct 2024**

- Designed and implemented a Python-based text editor using Tkinter
- Integrated key features such as file management, text editing, and undo/redo functionality for a comprehensive user experience using the best-fit data structures
- Implemented a dark theme for the user interface, creating an aesthetically pleasing and user-friendly environment
- Incorporated dynamic font size adjustments through Pillow
- Architected a reliable unsaved changese prompt system, alerting users to save their work before exiting the application

TECHNICAL SKILLS

- Front End | HTML, CSS, JavaScript
- Back End | C, C++, Python, Java
- Developer Tools | Git, Visual Studio Code, Visual Studio Community

EDUCATION

University of Oregon, Computer Science, Bachelors of Science **2023 — Present**

Pacific University, Computer Science, Bachelors of Science **2021 — 2023**