

Isaac Perkins

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Professional Experience

IT Support Technician – University of Oregon IS Feb 2023 – Present

- Introduced a solution to a recurring printer problem, reducing printer issues by 60%
- Utilized a priority-based ticket system to manage tasks and fulfill requests
- Contributed to a common knowledge base for future support by both users and technicians
- Planned, scheduled, and lead projects with my coworkers support

Java Developer – The NW Advanced Programming Workshop

Jan 2023 – June 2023

- Guided and mentored students in debugging and completing their programming projects
- Designed two Java assignments to teach object-oriented programming concepts
- Documented successful approaches and areas for improvement, enhancing students' understanding
- Worked alongside Tom Pittman, author of *The Art of Compiler Design* (1992)

Web Developer – University of Oregon CPE

Apr 2022 – Sep 2022

- Developed and edited website pages using **HTML**, **CSS**, **JavaScript**, and **PHP**
- Worked in a skilled team, utilizing **GIT** for version control
- Leveraged **SQL** for dynamic database operations to enhance page content updates

Projects

Safe Chat

- Iterated through nine **LSTM** models and settled on a **GRU** model with **72%** precision, **70%** recall, and **32%** accuracy
- Utilized **Tensorflows Sequential** library in addition to precision
- Published a **Gardio** demo on **Hugging Face** here https://huggingface.co/spaces/iperkins/safe_chat

Plate Spotter

- Trained a **YoloV8** model using a large dataset of license plate images on **Google Colab**
- Created a **Python** library for real-time video capture and license plate recognition using a trained machine learning model

Not Duo

- Collaborated with a team to develop a **Kotlin** based **Android** app, similar to Duo Mobile, incorporating biometric authentication for enhanced security
- Created a **Python** authentication library for seamless integration with **Flask** based websites

User Space Process Scheduler

- Wrote a process schedule in **C** which only used system calls
- Designed a program that reads from a list, runs processes independently, and displays performance statistics akin to Task Manager or Top

Education

Bachelor of Science, Computer and Data Science

University of Oregon, Eugene Oregon

- Dean's List
- Graduation June 2024

Skills

Languages: C, C++, Python, Java, Kotlin, JavaScript, SQL, Bash, HTML, CSS

Technologies / Frameworks: PyTorch, TensorFlow, NumPy, scikit-learn, Pandas, Matplotlib, OpenCV, Flask, Gardio

Databases: MongoDB, MySQL, Firebase

Software and Tools: Git, VS Code, Github

Platforms: Windows, Linux, MacOS, Docker