

# Isaac Perkins

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## EXPERIENCE

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### IT Support Technician

Feb 2023 – Present

*University of Oregon*

*Eugene, OR*

- **Reduced printer issues by 60%** by introducing a simple solution to recurring print size problem
- Utilized **TeamDynamix**, a priority-based ticket system, to manage tasks and **fulfill 1000+ requests**
- Contributed to **Confluence**, a knowledge base, for future support by both users and technicians
- Planned, scheduled, and **lead 5+ projects** with my coworkers support

### Java Developer

Jan 2023 – Jun 2023

*The NW Advanced Programming Workshop*

*Eugene, OR*

- Guided and mentored students in debugging and completing their programming projects
- **Designed and implemented 2 comprehensive Java assignments** to effectively teach object-oriented programming concepts to students
- **Enhanced student understanding by 40%** by documenting successful approaches and identifying areas for improvement
- **Collaborated with Tom Pittman**, renowned author of "The Art of Compiler Design (1992)," to enrich the learning experience and provide expert insights

### Web Developer

Apr 2022 – Sep 2022

*University of Oregon*

*Eugene, OR*

- **Developed and edited 100+ website pages** using **HTML, CSS, JavaScript, and PHP**, enhancing user experience and site functionality
- Collaborated in a skilled team of **5 developers**, utilizing **Git** for version control to ensure seamless project integration and code management
- **Reduced website load times by 25%** through code optimization and efficient resource management
- Leveraged **SQL** for dynamic database operations to enhance page content updates

## PROJECTS

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### Helping Hub

In Progress

- Developing a dash cam machine vision powered platform to document homeless settlements and their conditions to a public dashboard
- Tools Used: Python, C#, OpenCV, PyTorch, YoloV8, Numpy, Pandas, .NET Framework, Avalonia UI

### PixCollect

In Progress

- Developing an easy to use image scraping platform capable of pulling images from Google, Unsplash, and more
- Tools Used: C#, .NET Framework, Avalonia UI

### Safe Chat

Jun 2024

- Developed a LLM model that detects different classifications of "toxic" text, and built a Gradio app hosted on Hugging Face
- Tools Used: Python, Tensorflow, Numpy, Pandas, Matplotlib, Gradio, Google Colab

### Plate Spotter

Jul 2023

- Developed a license plate tracking software solution similar to that used by parking patrol and police
- Tools Used: Python, OpenCV, Pythorch, YoloV8, Numpy, Pandas, Matplotlib, Google Colab

## EDUCATION

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### University of Oregon

Sep 2020 – Jun 2024

*B.S. Computer Science, B.S. Data Science | GPA: 3.7/4.0*

*Eugene, OR*

- **Courses:** Data Structures, Algorithms, Computer Programming, Operating Systems, Machine Learning
- **Honors:** Dean's List

## TECHNICAL SKILLS

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**Languages:** Python C, C++, C#, Java, JavaScript, SQL, Bash

**Technologies:** Tensorflow, PyTorch, Keras, Scikit-Learn, OpenCV, OpenGL, Pandas, Numpy, Matplotlib

**Tools:** Tableau, Conda, VS Code, Github