

Rishab Anand

☎ (416)-315-4650 | ✉ r25anand@uwaterloo.ca | 🧑 rishabanand.com | 📱 Rishaband | 🌐 RishabAnand

SKILLS

Languages Python, C++, C#, C, JavaScript, SQL(MySQL), HTML5, CSS(SASS/SCSS), PHP, VHDL

Library/Tools Git, GitHub, Docker, VS Code, PyCharm, Figma, SDLC(Agile), NumPy, Bootstrap, REST, Pandas, Matplotlib

EXPERIENCE

Walker Industries - AI/ML Software Developer

Mar 2024 - Present

Python, C#, SQL, TensorFlow

- Engineered XRUIOS, an extended reality shell OS which interacts with a custom AI through C# scripting
- Developed an AI training driver for structured data(**ChatML**) input and ingestion into Large Language Models, improving artificial intelligence response accuracy by **15%** relative to the input
- Led the integration of RVC models into an easily portable build for integration within an LLM leading to an **80%** increase in API execution speed and reduced RVC voice buffer latency by **99.8%**, from **3s to 10ms**
- Improved text synthesis efficiency by **67%**, from an initial conversion rate of 20.74 to 33.4 through universal boundaries and entity-recognition on a diverse database by employing an unsupervised **ML model**

Site4U - Frontend Developer Intern

Feb 2024 - Present

JavaScript, HTML, Tailwind CSS, ReactJS

- Led **6+ members** in a cross functional team to design and develop responsive websites for startups, while engaging in server side tasks to ensure functionality and user experience
- Migrated a CSS code base to Tailwind through website wireframing, ensuring a smooth transition of utility classes
- Decreased deployment time by **30%** through automating a **CI/CD** pipeline using GitHub actions & Firebase

Electrium Mobility - Firmware Developer

Sept 2023 - Dec 2023

Python, C#

- Engineered input handling using ESP32 platform for E-Bike's Bluetooth connectivity achieving **<45ms** latency
- Collaborated closely with cross-functional teams to address design challenges and achieve seamless integration of hardware and software components, resulting in a **20%** decrease in maintenance and troubleshooting time

TTEC Computers & INC - IT Intern

May 2023 - Aug 2023

ConnectWise, SQL, .NET

- Troubleshoot and resolved computer issues including BIOS related problems & software conflicts
- Documented and maintained detailed records using the connectwise software for **500+** customer interactions

PROJECTS

TrainGPT

Python, BeautifulSoup, Transformers

- Created a Python script utilizing BeautifulSoup to engage with website data and HTML code segments, separating content into textual and visual elements for a custom designed **ChatML** format
- Performed **tokenization** on the collected structured data using Transformers library, breaking down the scraped information into fragments comprehensible to **Large Language Models**

LocaLink - NSBE Hacks

Python, Django, HTML/CSS, REST

- Built **Django REST API & Flask/JS** frontend replicating a community event platform by leveraging web scraping
- Utilized docker for containerization and git for version control, ensuring efficient deployment and scalability

ShooterPlus

Python, PyGame

- Built a dynamic shooter game using Pygame which implemented player controls and collision detection
- Leveraged OOP concepts to manage game components including obstacle spawning and bullet interactions

Personal Website

HTML, CSS(Bootstrap), JavaScript, Git

- Developed and designed a responsive personal website using HTML, CSS(Bootstrap), and JavaScript
- Employed Git throughout different project development phases for effective version management

EDUCATION

University of Waterloo

Waterloo, ON

Computer Engineering | Coursework: Fundamentals of Programming(**C++**), Digital Circuits(**VHDL**)

Sep 2023 - Present