

Rishab Anand

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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

AI/ML Software Developer - Walker Industries 📍 Miami, FL

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**

Frontend Developer Intern - Site4U 📍 Toronto, ON

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
- Transformed the CSS code base to Tailwind by wireframing each webpage, ensuring a seamless transition of utility classes resulting in a **8%** reduction in page load times.
- Decreased deployment time by **30%** through automating a **CI/CD** pipeline using GitHub actions & Firebase

Firmware Developer - Electrium Mobility 📍 Waterloo, ON

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

IT Intern - TTEC Computers & INC 📍 Brampton, ON

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**

LocalLink - 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

- Developed an interactive 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

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

Waterloo, ON

Sep 2023 - Present