

Rishab Anand

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EDUCATION

University of Waterloo


Bachelor of Applied Sciences, BASc - Computer Engineering

Waterloo, ON

Sep. 2023 – Apr 2028

EXPERIENCE

Technical Intern


PRGX Global Inc. 

- Incoming Fall 2024

Sep. 2024 – Dec. 2024

Mississauga, ON

Machine Learning Intern


Walker Industries 

- Engineered XRUIOS, an extended reality OS which interacts with a domain-specific LLM through C# Scripting
- Developed an AI driver for structured data (**ChatML**) input and ingestion into LLM's using Python & **retrieval augmented generation**, 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 a LLM leading to an **80%** increase in Fast API execution speed and reduced RVC voice buffer latency by **99.8%**
- Improved text synthesis efficiency by **67%**, from an initial conversion rate of 20.74 to 33.4 through universal boundaries and entity recognition on AI-user transcript by deploying a preset NLP model

Feb. 2024 – Apr. 2024

Miami, FL, USA

Firmware Developer Team Member

Electrium Mobility 

- Engineering input handling using ESP32 platform for E-Bike's bluetooth connectivity achieving **<45ms** latency
- Partnered with cross-functional teams to resolve design challenges, reducing maintenance time by **20%**
- Increased motor efficiency by **8%** by optimizing STM32F405 firmware with advanced signal processing

Sep. 2023 – Dec. 2023

Waterloo, ON

IT Systems Analyst Intern

TTEC Computers INC. 

- Troubleshoot and resolved computer and software issues including BIOS related problems & software conflicts
- Documented and maintained detailed records using the ConnectWise software for **500+** customer tickets
- Identified trends in client issues, providing feedback to management that improved resolution times by **15%**

May 2023 – Aug. 2023

Brampton, ON

PROJECTS

Site4U | JavaScript, React, HTML/Tailwind CSS

- Led **6** developers in a cross functional team to design and deploy responsive web applications for startups
- Transformed CSS codebases to Tailwind CSS by wireframing each webpage, ensuring a seamless transition of utility classes resulting in a **8%** reduction time in page load time
- Decreased deployment time by **30%** through automating **CI/CD** pipelines using GitHub actions and Firebase

TrainGPT | Python, BeautifulSoup

- 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 markup language format
- Performed **tokenization** on the collected structured data using HuggingFace Transformers library, breaking down the scraped information into fragments comprehensible to Large Language Models and **Transformers**

LocaLink | Python, Django, JavaScript, REST, Docker

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

ShooterPlus | Python

- Developed an interactive game using Pygame which implemented player controls and collision detection

TECHNICAL SKILLS

Languages: Python, C++, C#, JavaScript, SQL, HTML, CSS(SAAS, SCSS), PHP, VHDL

Frameworks: React, Node.js, Flask, FastAPI

Developer Tools: Git, GitHub, Docker, SDLC, Figma, VS Code, Visual Studio, PyCharm

Libraries: pandas, NumPy, Matplotlib, TensorFlow, SpaCy, PyTorch

Certifications: Azure Fundamentals(**AZ-900**), Azure AI Integration & Fundamentals(**AI-900**)