Hrishi Shah

Edmonton, Alberta

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EDUCATION

University of Alberta **Edmonton, Alberta**

B.S. in Computer Science *Expected Graduation, December 2024*

- **GPA:** 3.5/4.00, *Dean's List*
- **Related Coursework:** Data Structures & Algorithms, Objects & Design, Machine Learning, Artificial Intelligence, Object-Oriented Programming, Statistics, NLP, programming methodology, Software engineering

EXPERIENCE

Headstarter **REMOTE**

Software Engineer Fellow *July 2024 - Aug 2024*

- Developed 5+ AI apps & API's using NextJS, OpenAI, with a **95% accuracy used by 1000+ users**.
- Led a team to projects from scratch **following SCRUM and other agile practices and using MVC design patterns**.
- Coached by Senior engineers from Bloomberg, Microsoft and Amazon.

University of Alberta **Edmonton, Alberta**

Undergraduate Computing Science Teaching Assistant *Jan 2024 – May 2024*

- Created the most optimal assignments for students based on current course topics and difficulty.
- **Achieved a 5/5 rating of 85%** from the class who participated in the survey.
- Made sure that the highest standards of academic integrity were upheld such as plagiarism and cheating.

Aro Robotics **Edmonton, Alberta**

Software Engineering Team Lead Intern *Sep 2023 - Jan 2024*

- Led a team in efficiently completing complex projects through strong leadership and coordination.
- Developed physical sensors in order to capture data using Arduino saving the company **$4000 a month**
- Developed advanced algorithms for real-time analysis of sensor data, enhancing system responsiveness.
- Collaborated with cross-functional teams to streamline processes and implement continuous integration using multiple programming languages and frameworks, such as C, HTML, CSS, JavaScript, Python, and Django.

Aro Robotics **Edmonton, Alberta**

Dev-Ops Engineer Intern *May 2023 – Sep 2023*

- Developed and maintained a responsive company website, integrating third-party APIs for enhanced functionality.
- Automated software deployment processes, **reducing delivery times by 70%** thus improving efficiency.
- Enhanced system architecture using containerization, leading to improved application performance.
- Leveraged a wide range of technologies including HTML, CSS, JavaScript, .NET, and DigitalOcean for project success.

PROJECTS

Shakespeare Bot

- Developed a Recurrent Neural Network (RNN) model using Keras to generate poetry, trained exclusively on the 'shakespeare.txt' dataset from TensorFlow, mastering the distinctive style of Shakespearean text.
- **Achieved an 89.13% accuracy** with the model, consistently generating words and phrases that adhere flawlessly to the training data's text style.

Brain Tumor Detector

- Designed and developed a CNN using Keras and TensorFlow to classify MRI scans into a tumor or no tumor category. Then optimized the model with multiple pooling layers to efficiently extract features from MRI scans
- **Enhanced the CNN model's accuracy by 86.12%** by implementing preprocessing, data splitting, and overfitting prevention techniques in medical image analysis.

ACTIVITIES AND LEADERSHIP

Competitive Programming Club **Edmonton, Alberta**

Artificial Intelligence Club **Edmonton, Alberta**

SKILLS

Programming: Java, Python, JavaScript, HTML/CSS, SQL, Node.js, React.js, MATLAB, C++, C, C#

Tools: Android Studio, IntelliJ, PyCharm, Eclipse, AWS, Jupyter Notebooks, Git, Figma, Tableau, Digital Ocean, Arduino, Excel, Linux