

Krupal Shah

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Third year computing science student excelling academically and having hands-on coding experience through academic, volunteering, and personal projects. I am a passionate coder who loves Machine Learning and integrating software and building applications that can solve real-world problems.

EDUCATION

University of Alberta

Edmonton, AB

Bachelor of Science Honors in Computing Science - Artificial Intelligence

Sep 2022 – May 2026

- GPA: 3.9 / 4.0
- Relevant Coursework: Data Structures and Algorithms 1 | File and Database Management Systems | Machine Learning 1
- Scholarships:
 - The University of Alberta Regional Excellence Scholarships (CAD 5000)
 - The University of Alberta Gold Standard Scholarship (CAD 2500)
 - The Faculty of Science Gold Standard Scholarship (CAD 2500)

VOLUNTEERING

UACS (Undergraduate Associate of Computing Science)

Jun. 2024 - Present

Web Developer

Figma, React.js, Javascript, HTML, CSS, Firebase

- Built a UI/UX layout of the website using Figma.
- Integrated firebase to store user data and authentication.
- Developed a responsive website using React.JS, HTML, CSS, and JavaScript.

STARR (Student Team for Alberta Rocketry Research)

Sep. 2023 - Present

Team Lead - Software

C++, Linux, QT, Sensors

- Led a team of 20 members, overseeing projects and initiatives from conception to completion.
- Built an app in QT using C++ Object Oriented Paradigm to track the rocket, collect, parse, display, and store the data.
- Followed the Software Development Life Cycle (SDLC) and AGILE practices, setting milestones, version control, units test and maintaining quality standards.
- Facilitated productive discussions and decision-making processes during club meetings, ensuring all members had the opportunity to contribute ideas and provide feedback.

PROJECTS

E-Plant

July 2024

A shopping cart application for an online plant shop

React using JavaScript, HTML, CSS, Github

- Built a dynamic and responsive application which features a landing page, product page, and a cart page.
- Successfully integrated Redux to handle global state management, enabling efficient handling of user events, cart updates, and dynamic data rendering.
- Managed user interactions through event handling, enabling functionalities such as adding items to the cart, updating quantities, and calculating total costs in real-time.

Brain Tumor Detection Model

May - June 2024

A model to predict and detect brain tumors.

Python, PyTorch, Docker

- Uses Convolutional Neural Networks to analyze brain scans and identify whether a person has a tumor or not.
- The model has an accuracy of 98.23% established after optimization techniques like Adam and K-Fold Cross Validation.
- Converted to a docker model for easy deployment.

Rizzume

Jan. 2024

Chrome extension for personalized job interviews.

JavaScript, LLM, Flask, Chrome Dev Tools

- Developed a chrome extension which increases the user experience by 30% compared to web or mobile apps.
- Implemented a client - server architecture to prevent load on the web browser and be able to scale it in the future.
- Prompt Engineering on ChatGPT's API and fine tune it to conduct a personalised job interview based on the job description and prepare candidates for job applications and interviews effectively.
- Worked as a team, collaborated on issues, and worked under pressure to meet the hackathon deadline.

Unimates 2.0

Oct. - Nov. 2023

Personalized Blog for International Students

HTML, CSS, JavaScript, Node.JS

- Using JSON file formats to store data of all the blogs and calling it when the user requests data.
- Revamped the website architecture, transitioning from plain HTML to CSS and JavaScript, achieving a 100% improvement in performance and a notable 23% increase in customer satisfaction.
- Conducted comprehensive debugging processes, maintained high-quality standards, and successfully resolved 60% of reported bugs to enhance the overall user experience.

CERTIFICATES AND ACHIEVEMENTS

Developing Front-end Apps with React

Jun - Jul. 2024

Coursera, IBM

JavaScript

- Developed interactive user interfaces (UIs) and web applications using JavaScript technologies including React, JSX, and ES6.
- Built dynamic front-end applications quickly and easily with reusable React components.
- Employed various React concepts and features, including props, states, hooks, forms, and Redux.

Deep learning Specialization

May - Jun. 2024

Coursera, Deep Learning by Andrew Ng

Python

- Learned the foundation of neural network architectures such as CNN, RNN, LSTMS.
- Applied these skills on real world cases such as speech recognition, music synthesis, chatbots, machine translation, natural language processing, and more
- Learned various optimization techniques to fine tune a model / neural network.

Scheduler

16th Sep - 18th Sep. 2023

Won 2nd position in DevelopEd 2.0 Hackathon

JavaScript, Flask, HTML, CSS, GitHub

- Developed a web application to automate scheduling tasks, which can save up to 2 hours of user's time.
- Optimized the website by using lossless compressions for smaller image sizes and using SVG formats which increased website performance by 20%.
- Demonstrated robust problem-solving, coding, and teamwork skills in a highly competitive, time-critical environment.

Complete JavaScript Course 2023

May - Jun. 2023

Udemy

JavaScript

- Ability to develop interactive web applications using JavaScript, HTML and CSS
- Understanding of DOM elements, events handling and asynchronous programming.
- Able to apply my skills to enhance web experience and functionality in various web development projects.

University of Alberta Programming Contest

Feb. 2023

Won the title for the fastest coder, solving the first program within 1 minute.

Python

- Solving complex algorithms within a given timeframe, and ranked in the top 10.
- Identified, analyzed, and implemented optimal algorithmic solutions (e.g., Greedy approach, Divide & Conquer, Binary Search) in Python, resolving complex problems.

SKILLS

Programming: Python, C++, C, HTML, CSS/SASS, JavaScript, MySQL, SQLite, MongoDB

Developer Tools: Flask, React.JS, Git, Linux, VS Code, PyCharm, Node.js, Debuggers, OOP, MS Office, QT, Latex

Soft Skills: Creative, Strong Communication Skills, Curious, Team Work, Leadership skills, Adaptability, Time Management, Problem Solving, Critical Thinking