

A collaborative software engineering student, specializing in artificial intelligence, with proven communication skills and analytical abilities. Knowledgeable in data analysis, database management, and full-stack development.

SUMMARY OF QUALIFICATIONS

- Experience with technical projects and business process analysis gained through co-op and internships
- Applied knowledge of project management processes, with experience in troubleshooting and testing
- Proficient in developing applications using HTML5, JavaScript, CSS, and frameworks like ReactJS.
- Hands-on experience managing and deploying applications on cloud platforms, including configuring AWS EC2 instances for web hosting and troubleshooting.
- Proven to be a fast learner with strong problem-solving abilities exhibited through work and academics
- Foundational knowledge of AI concepts, including machine learning, NLP and search algorithms
- Multilingual: Fluent in English, Hindi, and Punjabi

TECHNICAL COMPETENCIES

Programming:	Java, Python, SQL, C#, HTML, CSS, JavaScript
Operating Systems:	Window, Linux, Unix
Frameworks:	.NET, React, Express.js, MongoDB, Node JS
Tools:	GitHub, Jira, Trello, Visual Studio Code, Visio, Bugzilla, MS Office Suite, Power BI
Cloud Platforms:	AWS (EC2 instance management, Nginx setup, troubleshooting, Microsoft Azure, Google Cloud, Databricks)
Training:	Full Stack Developer course completed via Coursera (2023)
Certifications:	Azure Data Fundamentals Certified by Microsoft - DP900 (2024), Databricks Lakehouse Fundamentals Certified (2024), Google Cloud Essentials Badge by Google (2023), Skills in Data Analytics by LinkedIn (2024)

EDUCATION

Software Engineering Technology - Artificial Intelligence Advanced Diploma	Sept. 2022 - Present
Centennial College, Toronto, ON	GPA of 4.25/4.5 (A)
<i>Focus Areas:</i> Full Stack Development Database Management Neural Networks IT Project Management Machine Learning Supervised Learning Unsupervised Learning UI/UX Design Testing & QA Unix/Linux	

RELEVANT EXPERIENCE

Software Lab Assistant (Co-op) Centennial College Toronto, ON	Sept 2024 - Dec 2024
<ul style="list-style-type: none">• Deployed a full-stack LAB CHECKSHEET app on AWS EC2 with Nginx and WebSocket support.• Troubleshoot and resolved 502 and CORS errors during deployment, optimizing Nginx and Express configurations to ensure smooth application performance.• Managed secure MongoDB connections using environment variables and best practices to ensure data integrity.• Documented processes/procedures to improve operations and provide clear guidance for future troubleshooting• Supported students and staff with technical issues related to hardware, software, and network connectivity in labs	
Data Analyst Intern (Co-op) Scriptics Tech. Toronto, ON	May 2024 - Aug 2024
<ul style="list-style-type: none">• Collected, cleaned & organized large datasets for analysis; Performed exploratory data analysis to identify trends• Assisted in the development and implementation of data models and algorithms• Collaborated with cross-functional teams to gather requirements and address business needs• Generated reports and visualizations using tools such as Excel and Power BI to communicate findings	
Software Developer Intern GAO Tek Toronto, ON	Feb. 2023 - May 2023
<ul style="list-style-type: none">• Identified and qualified potential leads and prospects through various channels such as online research, networking events, trade shows, and social media, assessing the suitability of leads for further engagement• Participated in team meetings, code reviews, and brainstorming sessions to contribute ideas, share progress updates, and receive feedback from senior team members• Tested functionalities, identifying bugs or issues, and debugging to ensure software quality and stability• Conducted business market research to identify potential markets, analyze industry trends, and gather insights	

HACKATHON PROJECT

3rd Prize Winner - Protect Track and Collect (PTC App) | TTC & WIMTACH Student Hackathon

- Innovated an operator interface featuring SOS and reporting buttons for emergencies, including medical and law enforcement assistance
- Served as Team Lead for a project focused on enhancing safety for public transit operators and riders
- Implemented a reporting button to capture live feed and send reports to law enforcement for security measures
- Established a chatbot using cv2 for frequently asked questions, enhancing user interaction and support capabilities
- Designed Lost & Found function to provide precise bus location, improving efficiency in managing lost items

ACADEMIC PROJECTS

Spam Email Classification - Machine Learning & Text Preprocessing

- Built a spam email classifier using Multinomial Naive Bayes, enhanced with TF-IDF and BOW techniques.
- Transformed and cleaned email data, addressing missing values and redundancy to optimize the training dataset.
- Analyzed data to visualize label trends, email length, and feature relationships for model enhancement.
- Deployed the classification model with a focus on precision and recall, achieving high accuracy in distinguishing spam from non-spam emails.

Weather Application - React JS

- Designed and developed a weather application with login and sign-up functionality
- Implemented user authentication features to ensure secure access to personalized weather forecasts and settings
- Utilized React components to create dynamic and responsive user interfaces, providing real-time weather updates

Blackjack Game- HTML, CSS, JavaScript

- Developed an engaging Blackjack game featuring live card dealing and score tracking.
- Executed player actions like hit, stand, and double down, enhancing gameplay interactivity.
- Created a visually appealing user interface to simulate a traditional Blackjack experience on the web.
- Developed game logic for card dealing, win/loss conditions, and score calculation for a dynamic gaming experience.

Health Diagnostic Tool (Software System Design Document)

- Led the collaborative development of a Software System Design document aimed at tackling healthcare challenges, such as limited access, extended wait times, and nosocomophobia
- Spearheaded the creation of a Health Diagnostic Tool (HDT), facilitating health issue identification, appointment scheduling, and resource optimization
- Enhanced user experience by quick health issue identification and considering patient medical history
- Addressed high wait times and optimizing resource allocation through effective tool utilization
- Improved healthcare quality via appointment scheduling and virtual sessions

CO-CURRICULAR ENGAGEMENT

Street Team Member (Part-time) | Centennial College | Toronto, ON

May 2024 – Present

- Monitor & engages with students as an organization representative on digital connection platforms including, but not limited to, MS Teams, Zoom, Social Networks, etc.
- Assisted with collection of student feedback on programming, to help improve future iterations
- Supports with campus-wide planning and programming for students such as new student orientation, welcome-back programming and wellness initiatives that support experience and engagement at the College
- Provide information and referrals to students for campus services, as well as informative campus tours