

Ali Hakkani

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Objective:

Seeking a Software Engineer/Developer role to gain hands-on industry experience, apply my software skills, and contribute to impactful projects.

Technical Skills:

Languages: HTML, CSS, JavaScript, Node.js, C++, C, Java, Python

Frameworks & Libraries: React, Bootstrap, Sass, Axios, FastAPI, Scikit-learn, TensorFlow, Keras, PyTorch, NumPy, Pandas, Matplotlib, Seaborn, Plotly, Bokeh

Tools & Technologies: Figma, Git, GitHub, MySQL, JUnit, FastAPI, CI&CD

Deep Learning & AI : Image Classifier (ResNet50), Machine Learning Pipelines

Data Science & Visualization: Data Cleaning & Preprocessing, Data Analysis, Exploratory Data Analysis (EDA), Data Visualization, Dashboard Development

Highlights of Qualifications

- Effectively marketed and promoted programs, led informational sessions, and collaborated with teams to increase engagement and participation
- Developed outreach initiatives that encouraged students to join university programs, summer camps, and STEM events, driving awareness and interest.
- Led STEM-focused sessions for participants of different age groups, simplifying complex technical concepts while ensuring an interactive learning experience.
- Successfully managed multiple projects and marketing campaigns, demonstrating initiative, precision, and efficiency in execution.
- Applied critical thinking in outreach strategies, program development, and technical projects, ensuring optimized solutions and engagement.

Education

Bachelor of Engineering - Software | Ontario Tech University, Oshawa, ON

Expected Graduation: 2028

Relevant Courses: Data Structures, Web Programming, Object-Oriented Programming

Work Experience

Administrative Assistant

Sep 2024 - Apr 2024

Faculty of Engineering & Applied Science, Ontario Tech University

- Optimized the university's CMS by developing and maintaining web pages (HTML, CSS, JavaScript), improving content accessibility for faculty and students.
- Automated email workflows with Google Apps Script, streamlining event registration and reducing manual efforts by 80%.
- Developed an inventory tracking system in Google Sheets, integrating automated stock updates and low-stock alerts, improving faculty response times.
- Built an event management system that dynamically controls outreach event links, automating their activation/deactivation and ensuring timely access for faculty and students.

High School Instructor

Jul 2022 - Aug 2022

Engineering Outreach, Ontario Tech University

- Assisted in teaching Python programming to kids, answering coding questions and helping debug beginner-friendly projects using Python, Arduinos, and microbots.
- Guided students through hands-on coding exercises, ensuring they understood basic programming logic, loops, and conditionals.
- Helped troubleshoot software and hardware integration issues, making programming concepts engaging and accessible for younger learners.

Projects

EcoBin AI

Full Stack Developer/Project Lead

- Led the end-to-end development of EcoBin AI, a full-stack web app using FastAPI, Streamlit, and PostgreSQL that classifies household waste images with a ResNet50 deep learning model.
- Built secure user authentication, encrypted session management, and personalized dashboards with live analytics, enabling real-time waste tracking and full customization of bin categories and images.
- Engineered modular API endpoints, database design, and seamless integration between backend (FastAPI, SQLAlchemy) and interactive frontend (Streamlit, Plotly, Pandas, custom CSS).
- Managed cloud deployment on Railway, documented all workflows, and established automated testing (pytest), ensuring scalability, data integrity, and contributor onboarding.

Resource Management System

Full Stack Developer/Project Lead

- Led the development of a full-stack web app that enables users to organize and manage course-related resources, improving study efficiency.
- Built the frontend using HTML, CSS, JavaScript and developed the backend with PHP, Node.js, MySQL, implementing secure data management and authentication.
- Managed project workflow, overseeing database structuring, feature development, and team coordination to ensure timely completion.

Volunteer / Extracurriculars

Front End Developer

Sep 2024 - Present

Enactus, Ontario Tech University

- Developed and maintained interactive UI components for the Enactus webpage using React, Bootstrap, CSS, and JavaScript, improving user experience and navigation.
- Integrated Axios to enable seamless API communication, enhancing real-time data fetching and interactivity.
- Optimized page responsiveness and UI performance, ensuring a mobile-friendly design and better accessibility.
- Collaborated with the team to enhance website functionality, increasing engagement for students and faculty.

VP Marketing

July 2023 - November 2023

FYIC OC, EngSoc, Ontario Tech University

- Designed and led branding efforts for the First-Year Integration Conference (FYIC), attracting 100+ engineering students across Ontario through strategic marketing.
- Created promotional materials (logos, lanyards, merchandise) using Canva, enhancing event visibility and engagement.

- Developed and executed marketing strategies, collaborating with the team to establish theme colors, typography, and branding elements, ensuring a cohesive and professional event identity.
- Boosted event participation through targeted promotions, increasing student engagement and sponsorship interest.

Peer Leader

March 2023 - December 2023

Student Equity and Engagement, Ontario Tech University

- Marketed and promoted orientation programs, reaching out to first-year students to assist in their transition to university life.
- Developed engagement strategies, creating a welcoming and supportive environment to increase participation in mentorship and academic resources.
- Collaborated with university staff and student groups, enhancing outreach efforts and ensuring effective communication with students.