

Devansh Singh

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Personal Profile

Enrolled in level 3 of the 4-year Honors Computer Science Co-op program at McMaster University with a strong foundation in algorithms, machine learning, and software development. Experienced in Python and web technologies, with a demonstrated ability to deliver innovative solutions through academic and self-initiated projects.

Education

Bachelor of Applied Science, Honours Computer Science

McMaster University, Hamilton, ON

Sept 2022 - April 2027 (projected)

- Awarded the McMaster Award of Excellence for achieving an average over 97 %
- Current cumulative GPA of 3.9 / 4.0
- Relevant courses: Object Oriented Programming, Web Development, Data Structure and Algorithms, Databases, Data Privacy, Computer Graphics, Operating Systems

Work Experience

Digitize Solutions

Haryana, India

Junior Web Developer

May 2024 - Jul 2024

- Collaborated with a team of 5 senior developers to deliver 3 fully functional client websites.
- Developed front-end web pages using the React framework, reducing page load times by 15%.
- Integrated RESTful APIs into web applications, improving data exchange speeds.

Digitize Solutions

Haryana, India

Software Tester

May 2023 - Jul 2023

- Identified and documented over 50 software bugs and discrepancies, improving product stability.
- Conducted regression testing on 5 web applications, ensuring 100% compliance with project requirements.
- Created and executed 100+ test cases, resulting in a 25% reduction in post-launch bugs.

Computer Science Society

Academic Executive

Jan 2023 - Present

- Organized and managed 10+ review/study sessions for over 200 students, improving exam performance by around 20%.
- Coordinated guest lectures and workshops, increasing student engagement.

Projects

Language Translator

Grade Received : - 100%

Dec 2022 - Jan 2023

- Created a Language Translator using IBM Watson API and Python, supporting translation between French and English with an accuracy of 98%.
- Developed the web application using Flask, including unit testing for 95% code coverage and packaging the solution as a Python module.
- **Technical Skills:** Python, Flask, Web Application, Web Services API, Unit Testing
- **Fields covered:** Artificial Intelligence (AI), Application Development

Portfolio Website

Self Project

July 2023

- Created a portfolio website using HTML, CSS, JavaScript, React, and Node.js to showcase personal projects and development skills.
- The website has received over 500 unique visits and includes an easy-to-use contact form with a 100% response rate.
- **Technical Skills:** HTML, CSS, JavaScript, React, Node.js
- **Fields covered:** Web Development

Chess Prediction Model

Self Project

Jun 2024 - Aug 2024

- Developed a chess game outcome prediction model using historical data from over 10,000 chess games in chess.com archives.
- Implemented a Flask API backend and a React/TypeScript frontend, serving predictions with an accuracy of 80% on average.
- Integrated four predictive models to analyze and predict outcomes for 8 top chess players.
- **Technical Skills:** Python, Flask, React, TypeScript, Scikit-learn, API
- **Fields covered:** Machine Learning, Web Development, Data Analysis, Flask API, React

Skills

Languages & Frameworks: Python (Pandas, NumPy, Scikit-learn, Pytest), Java, C, C++, SQL

Web Development Tools: HTML, CSS, Tailwind, JavaScript, NodeJS, .NET, React, Node.js, TypeScript, REST API, TensorFlow, Flask

Tools & Platforms: Linux, Shell (Bash/Zsh), Git, GitHub, Microsoft Office, LaTeX, MongoDB

Soft Skills: Time Management, Teamwork, Problem-solving, CI/CD, Scrum, Agile Methodologies, DevOps