

Ehsan Salimi

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EDUCATION

UNIVERSITY OF WINDSOR

Windsor, Ontario

Bachelor of Science in Computer Science (Honours)

Sep 2020 - Apr 2024

Awards: Student Access Bursary Recipient, Three Times In-Course Scholarship Recipient

Related Courses: Data Structures and Algorithms, Agile Software Development, Artificial Intelligence & Machine Learning, Database Management & Web Development, Object Oriented Design and Testing, Computer Networks

SKILLS

PROGRAMMING LANGUAGES: Python, JavaScript, HTML5, CSS, PHP, MySQL, Java, TypeScript, C

LIBRARIES & FRAMEWORKS: NodeJS, Express, Vue.js, Bootstrap, Flask, MongoDB, REST APIs, GraphQL

CONCEPTUAL EXPERTISE: Pipeline Automation, Feature Engineering, Software Design Patterns, Agile Methodologies

DEVELOPMENT TOOLS: GitHub, VS Code, Jupyter, Colab, Docker, Linux, WordPress

EXPERIENCE

BETTERMODE

Toronto, Ontario

Software Engineer Intern | Slack Integration Optimization

Jun 2023 - Sep 2023

- Redesigned back-end architecture using NodeJS to utilize dynamic blocks and saving setup time by 20%.
- Enhanced security by implementing OAuth 2.0 authentication, significantly improving user data security.
- Improved channel and Webhook customization by introducing independent connections, enhancing flexibility.
- Collaborated with a cross-functional team in agile sprints, resulting in the completion of several projects.

UNIVERSITY OF WINDSOR

Windsor, Ontario

Research Assistant | Vehicular Ad Hoc Network

Jun 2022 - Dec 2023

- Achieved 99.8% accuracy in signal transmission for autonomous vehicles using machine learning.
- Analyzed correlation matrices and heat maps to find critical variables affecting performance.
- Streamlined model training through automation and created a template, reducing the training time by 30%.

Research Assistant | Online Predatory Conversation Detection

Nov 2022 - Mar 2023

- Improved predatory conversation detection accuracy by 5% using machine learning techniques.
- Utilized Scrapy to develop a web crawler that increased database instances by 20%.
- Presented research findings at UWill Discover 2023 to raise awareness of online safety measures.

Teaching Assistant | Python, Intro to Algorithms

Sep 2021 - Apr 2024

- Guided students through course materials and provided feedback to improve students' understanding.
- Managed weekly office hours and lab sessions, effectively resolving academic difficulties, and supporting student learning.

PROJECTS

PLANETARY API | Python, Flask, SQLite, REST APIs 🔗

- Created a dynamic backend system for retrieving and updating planetary data, integrating real-time updates via Webhooks to ensure the latest information from international space stations.
- Implemented a user authentication system for personalized exploration tracking, allowing users to keep track of their discoveries.

LIBRARY MANAGER | PHP, JavaScript, MySQL, HTML, CSS 🔗

- Developed an online library management system with admin panels for efficient user and book management.
- Implemented account creation and privilege management, including dynamic book borrowing features, loan, and fine management.