

# Mohammadreza Davoudi

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## SUMMARY

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- Full-stack software developer and constant learner with a passion for developing scalable web applications and cutting-edge technologies
- Over seven years of experience in software development and worked with various stakeholders
- Master's degree in Software Engineering from Azad University - Tehran North Branch, Iran
- Developed research and analytical skills by working on group projects throughout my education
- Fluent in English (IELTS certificate in the academic test - January 21)

## WORK EXPERIENCE

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### Full Stack Software Developer

Sep 2022 - Aug 2023

Ross Video, Ottawa, ON

- Develop software applications using Java, Javascript, JQuery, and other languages and Frameworks
- Writing unit tests in JUnit and using testing frameworks like Jest
- Work closely with the product verification team and help them to develop manual and automated testing using Zephyr, Gherkin, Cucumber, and Jenkins
- Work with different databases such as Mysql and Postgres
- Develop web applications with different technologies and help the "Inception team" to add new features to their program

### Junior Data Analyst and Communications Specialist

May 2022 - Aug 2022

University of Ottawa, Ottawa, ON

- Developed a web application with .NET Core and C# to help the MEDSAO team to monitor their statistics and extract information from the client's data. This application had a feature to automatically extract useful information from Excel and Pdf files and import the extracted information to the Database with few clicks
- Learned how to use Excel formulas efficiently, find similarities in data sheets and extract statistics
- Learned how to make various dependent dropdown lists to work with data sheets easier
- Plotted different charts and graphs and compared various data with previous years
- Worked with Python, Pandas, Matplotlib, and other interesting libraries to extract information from raw data

### Software Engineer and Web Developer

Jan 2011 - May 2021

Self-Employed, Iran

- Developed web-based applications and responsive websites using the latest industry-adopted technologies and frameworks, such as Asp.net MVC and C# for the backend and Bootstrap, Html5, Css3, and parallax scrolling in the frontend; This resulted in a better user experience for the client's website, which in turn improved the sales significantly
- Created various web applications to process and analyze data and visualize it in a user-friendly way

- Improved customers' websites' performance and reduced the loading time
- Managed time-sensitive updates, including content changes and database upgrades
- Developed easy-to-use control panels for users
- Met various stakeholders to assess their needs and solicit their feedback on projects
- Taught computer basics, languages, principles, and technologies to clients

**Software Engineer and Researcher**

Sep 2011 - Apr 2017

TAMAS GOSTAR KISH (TGK), Iran

- Developed required applications for a smart home to monitor and control different sensors and actuators to manage lighting, temperature, and various sections in a smart building using 1-Wire transfer technology, Zigbee, APIs, and socket programming
- Ensured mini-computers and applications securely communicated with APIs and databases
- Researched IoT devices and energy consumption in smart buildings
- Helped and solved customer's technical problems
- Worked as a researcher in the R&D department
- Updated the company's website and added new content

**Network Administrator**

Jan 2009 - Jun 2009

Owj NET GROUP CO, Iran

- Installed and configured short and medium-range Internet antennas and modems
- Managed and monitored ISP's traffics and routing
- Checked the wireless network coverage and availability for users
- Supported customers with their technical needs

**OTHER WORK EXPERIENCE**

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**Teaching Assistant**

Jan 2022 – May 2022

University of Ottawa, Ottawa, ON

- Developed time management, presentation, mentoring, and written communication skills during the semester as a teaching assistant for the Database course

**SKILLS**

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**Engineering Skills****Programming Skills:**

- Professional understanding of Software Engineering, Requirement Engineering, Programming Principles, Web Development, OOP, Clean Coding and CI/CD

**Frontend:**

- Advanced knowledge of HTML5, Bootstrap, CSS3, Sass, JavaScript, jQuery, AJAX, and Flutter
- Practical understanding of UX and UI design to develop responsive and mobile-friendly applications

**Backend, Databases, and Services:**

- Proficient in C#, Python, Java, C++, Asp MVC, .Net Core, Entity Framework, Rest API, Web API, JSON, Dart, Unit Testing, SQL Server, MySQL, Postgres, and MongoDB

- Developed understanding of Microsoft Azure, AWS, IIS, Load balancing, Docker, and Microservices

### Artificial Intelligence and Machine Learning:

- Studied and Learned principles of AI, ML, ACO, ANN, CNN, GA, and GP

### Tools and Technologies:

- Advanced proficiency in Tensorflow, Netlogo, Visual Studio, VsCode, WebStorm, PyCharm, Resharper, Balsamiq Mockups, UML, Google Analytics, WordPress, Git, and GitHub

### In Progress:

- React

## Computer Skills

- Advanced knowledge of Microsoft Office Suite and information gathering
- Experienced in Microsoft Windows, Linux, Raspbian, and virtualization

## Other Skills

- Teamwork: Working in a team on various software development projects
- Attention to detail: Improved attention to detail by years of Frontend development
- Problem-solving: Overcame delays at work through problem-solving skill
- Time management: Delivered projects in a limited time frame successfully
- Communication: Excellent verbal and written communication skills in English and Persian

## EDUCATION

### Master of Computer Science (Co-op)

Sep 2021 - Present

University of Ottawa, Ottawa, ON

- Studied and Practiced Artificial Intelligence, Machine Learning and conducted research in handwriting recognition using Tensorflow, Jupyter Notebook, Machine Learning, and datasets
- Found the shortest path in a maze using Python and Ant colony optimization (ACO)
- Attained practical knowledge of Internet measurement and cyber security
- Design and developed a multi-device application for online shopping, using ASP Core, and Flutter

### Master of Software Engineering

Sep 2014 - Jan 2018

Azad University Tehran North Branch, Iran

GPA: 3.42/4

- Thesis title: Design of an automatic system for greenhouse management to improve energy consumption (Final grade: A+)
- Designed and implemented a real-time intelligent greenhouse management system with Raspberry Pi and Fuzzy logic and APIs using different sensors and actuators

### Bachelor of Software Engineering

Sep 2007 - Jan 2010

Parsa Higher Education Institute, Iran

GPA: 3.01/4

### Associate degree in Software Engineering

Nov 2004 - Jul 2007

The University of Science and Applied Technology, Iran

GPA: 3.33/4