

Hoodad Farhad

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Full-Stack Developer

PROFILE

Full-stack developer with an MSc in Computer Science (HCI), passionate about creating user-centric digital solutions. Proficient in Node.js, HTML, CSS, JavaScript, React, and PostgreSQL, with expertise in both front-end and back-end development. Experienced in designing responsive interfaces, seamless API integration, and full API development. Skilled in cloud platforms like Azure, and building scalable, high-performance web applications. Well-versed in GitHub version control and Agile methodologies.

SKILL

Programming Languages: JavaScript (ES6+), TypeScript, Node.js, Java, HTML, CSS

Web Development: React.js, Next.js, Node.js, RESTful APIs, Bootstrap, jQuery, EJS

Backend and API Development: Express.js, API design and development, authentication (JWT, OAuth)

Database Management: Expertise in SQL (PostgreSQL, MySQL) and NoSQL (MongoDB)

Cloud Technologies: AWS (Cloud Foundations, IAM, EC2, S3, Cloud Computing Basics), Azure, Docker

CI/CD and Version Control: Experienced with Git, GitHub, Jenkins, Confluence, Terraform

Tools and Methodologies: Jira, Confluence, Agile & Scrum, Wireframing, Prototyping, Usability Testing

RELEVANT WORK EXPERIENCE

Freelance Full-Stack Developer / Online Shop Website Example / Guelph ON. July 2023 – Present

- Developed a **fully functional online store** using **EJS, CSS, browser JavaScript, Express.js, and jQuery**, ensuring a dynamic and interactive user experience.
- Built a **React-based admin panel** for product, order, and customer management, enhancing usability and efficiency.
- Connected the website to a **SQL database (PostgreSQL/MySQL)** for **real-time inventory tracking and order management**.
- Integrated **Shopify for secure payment processing**, improving transaction speed and reducing checkout failures by **30%**.
- Optimized website performance, reducing page load times by **40%**, improving user retention by **20%**.
- Deployed and managed the application on **cloud infrastructure**, ensuring **99.9% uptime**.

Teacher Assistant / University of Guelph / Guelph ON September 2022 - December 2024

- Guided students in developing interactive UI components using **HTML, CSS, JavaScript, and React**, emphasizing user-centered design.
- Conducted **Figma prototyping workshops** and provided lab support, contributing to an **82% average exam score** in UI topics. Led **database management tutorials** on **SQL and PostgreSQL**, troubleshooting queries and design issues, resulting in a **20% improvement in midterm scores**.
- Provided continuous **one-on-one support**, enhancing practical problem-solving skills in **UI/UX and database systems**.

XAI Researcher / Collaborative Systems Lab / Guelph ON September 2022 – December 2024

- Conducted a **thesis-driven study** on subtitle accuracy and availability, enhancing user comprehension by 35% through UI changes, and delivered actionable insights in business-focused reports to drive UX improvements emphasizing accessibility and inclusivity.
- Applied **React.js** and **JavaScript** to create prototypes for testing and data analysis

Full-Stack Web Development Intern / Segal Pardaz Sina / Tehran IR January 2019 – September 2020

- Developed a **web application** for financial management and real-time expense tracking using **React.js** for the frontend and **Node.js** for the backend.
- Implemented **SEO best practices**, including optimizing page load speeds, meta tags, and structured data, to improve search engine visibility and user acquisition.

EDUCATION

MSc of Computer Science | 2024 |
University of Guelph / Guelph ON
Thesis field: Human-Computer Interaction
GPA: 3.94 of 4.00

B.Sc. in Software Engineering | 2021 |
Azad University Central Tehran Branch / Iran
GPA: 3.67 of 4.00

Relevant Courses Completed include:
Mobile Application Development
(Graduate level | Score: A+)
Data Structure and Algorithm
(undergraduate level | Score: A+)
Object-Oriented Programming
(Undergraduate level | Score: A+)

SCHOLARSHIPS & AWARDS

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|---|------|
| • GPA score ranked within the top 3% of my graduating class | 2021 |
| • Recognized as top student for 6 semesters, earning special privileges | 2020 |

MAJOR PROJECT

PERSONAL FITNESS TRACKER/ Undergraduate Level Project / Tehran IR 2021

- Developed a feature-rich **web application** for sharing and browsing workout routines using **HTML, CSS, JavaScript, and Node.js**.
- Designed and integrated a **PostgreSQL** to store workout routines, user profiles, and activity logs efficiently.
- Deployed the application on AWS using EC2, ensuring high availability and scalability.
- **Integrated AWS S3** for media storage, **reducing backend load by 35%** and **improving image retrieval speed by 50%**, ensuring a smoother user experience.
- Implemented **RESTful API** integration to fetch curated fitness articles, enhancing the application's functionality and demonstrating proficiency in external data integration.
- Integrated **JWT-based authentication** to securely manage user sessions, ensuring data protection and preventing unauthorized access.
- Applied **secure routing practices**, including role-based access control (RBAC) and token verification, to safeguard API endpoints against unauthorized usage.
- Optimized the platform for **cross-browser compatibility** and **responsive design**, creating a smooth user experience across devices.
- Collaborated effectively using **Git** and **GitHub** for version control, ensuring a well-organized codebase and smooth team collaboration throughout the project.

SMART PARKING WEB APP/ Undergraduate Level Project / Tehran IR 2020

- Developed a web application to locate parking spots in real time, informed by surveys and interviews with 50+ users, enhancing user engagement and accessibility.
- Built the app using **React.js** for cross-platform compatibility, with a **Node.js backend** to handle **real-time data processing, user authentication, and dynamic updates** for available parking spots.
- Integrated **third-party API**, **reducing system runtime by 18%** through optimized API calls.
- Optimized the platform for **cross-browser compatibility** and conducted **usability testing** to improve the user experience
- Leveraged **GitHub** for version control to manage the codebase and collaborate efficiently.

TRAINING & CERTIFICATES

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| • AWS Cloud Practitioner | (expected: 2025) |
| • Node.js Unit Testing In-Depth | 2025 |
| • The Complete Full-Stack Web Development Bootcamp | 2025 |
| • Java SE Programmer LAITEC Institute | 2020 |
| • Network+ Tehran Institute of Technology | 2018 |

VOLUNTEER EXPERIENCE

Event Coordinator, University of Guelph September 2024 – December 2024
proactively managed venue reservations and event planning using excellent organizational abilities, guaranteeing smooth setup and clear communication between faculty and guests. displayed the **flexibility, problem-solving**, and people skills necessary to manage challenges and keep the event running smoothly.