

NASTARAN ESMAEIL ZADEH

AI & Web Developer

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ABOUT ME

Graduate computer scientist who has been working in practice in research-driven software development, AI-assisted systems, and intelligent web applications. Designed and implemented end-to-end systems and design on healthcare-related and business-oriented projects, such as a web-based insulin management system and analytical systems based on SEO.

Passion to study engineering in research, data modeling and system optimization with backup of academic research and publication oriented work. Creates a combination of technical, analytical and leadership background.

EDUCATION

Bachelor of Computer Science (General)

Asia Pacific University | 2023-2026

PUBLICATIONS

Jokanian, S., **Esmail Zadeh, N.** (2025)

Overcoming bushfire challenges via machine learning techniques and enhanced training data in Australia. Manuscript submitted to Natural Hazards (Springer Nature), December 2025.

Esmail Zadeh, N. (2026)

InsuSmart: A Web-Based System for Optimizing Insulin Dispensing and Monitoring for Pharmacies. Manuscript in preparation.

WORK EXPERIENCE

Pharmacy Clerk

Jan 2025 – May 2025

- Ensuring accuracy in filing, paperwork, and data entry
- Administrative Tasks

Web Development Intern

2021-2022

- Developed and maintained website pages using Drupal and WordPress
- Designed and developed the SEO Consultants service page for Rose Attractions
- (roseattractions.com/our-services/seo-consultants)
- Contributed to the development and content structuring of the Rose Attractions homepage
- Built responsive landing pages with focus on UI/UX and performance
- Set up and configured Google Analytics for website performance tracking
- Performed on-page SEO optimizations including metadata, content structure, and usability
- Conducted keyword research and competitor analysis to support SEO strategies
- Collaborated with the marketing team to enhance overall digital presence

VOLUNTEERING ROLES

President – Iranian Cultural Club (ICC), APU

- Founder and first President of the Iranian Cultural Club at APU.
- Lead cultural events, manage team activities, and represent Iranian students on campus.
- Responsible for planning, organizing, and executing community-focused cultural programs.

Food Sorter – The Lost Food Project

- Sorted donated vegetables and produce, ensuring only fresh and safe items were prepared for distribution to partner charities.
- Contributed to reducing food waste and supporting local communities in need.

ACADEMIC PROJECTS

InsuSmart – Web-Based Insulin Management System (FYP)

- Designed and developed a full-stack web-based insulin management system
- Implemented inventory control, low-stock and expiry monitoring
- Designed database schema and role-based access control (RBAC)
- Built a responsive, user-centric UI/UX
- Applied AI-assisted development and conducted system testing

SEO Consultancy Website Enhancement

- HTML, CSS, Drupal, UI/UX improvements
- Developed multiple landing pages and content sections for RA Marketing's website.
- Improved page responsiveness and layout consistency using HTML/CSS.
- Created and published content through Drupal CMS.

Deep Learning Based Sentiment Analysis Project

- Developed an end to end sentiment analysis system for social media text classification
- Designed and trained LSTM based deep learning models for natural language processing
- Performed data preprocessing, model optimization, and evaluation using standard classification metrics

SKILLS

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| • Full-Stack Web Development | • UI/UX Design & Responsive Web Design |
| • Python & MySQL | • Research Writing & Analytical Thinking |
| • AI-Assisted Development & Prompt Engineering | • Problem Solving & Critical Thinking |
| • Machine Learning (Academic Level) | • Leadership & Team Collaboration |

REFERENCES

Shahab Alizadeh

Senior Lecturer

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Vijayaraj C. Vijayasingam

Senior Lecturer

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