Mohammadamin (Amin) Sedaghat

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Education

University of Waterloo | **Faculty Average: 98%** — Sep 2024 - Present
Bachelor of Computer Science — *Waterloo, Ontario*
- **Relevant Courses:** Algorithm Design and Data Abstraction (Advanced) - Designing Functional Programs - Tools and Techniques for Software Development

Experience

Machine Learning Engineer — Feb 2025 – Present
WAT.AI — *Waterloo, Ontario*
- Developing an **(ANN)** algorithm utilizing **TensorFlow** to enhance operational performance
- Optimizing the extraction, processing, and cleaning of data from the **Diskos dataset**
- Engineering a predictive model leveraging **Support Vector Machines (SVM)** and real-time analysis to forecast stone formations

Lead Full Stack Web Developer — Dec 2024 – Present
UWDBC — *Waterloo, Ontario*
- Recruited and lead a **team of three** developers to architect, develop, and launch a dynamic web platform using **NextJs** that enhanced club connectivity with athletes
- Engineered and integrated dynamic content management features using **Prismic.io**, streamlining update workflows
- Designed the website using **figma** implementing new pages-including a gallery, executive profile, and store

Softwarer Developer — Sep 2024 – Dec 2024
UWCSC — *Waterloo, Ontario*
- Developing a predictive model, **Stock ML**, using **RNN (LSTM)** to analyze stock market trends based on sentiment analysis of financial news and historical data
- Building a web-scraping tool with **Python, Newspaper3k, and Scrapy** to gather targeted financial news for sentiment analysis
- Integrating **Alpha Vantage API** to access and incorporate real-time and historical stock data into predictive analysis workflows

Projects

Snake Futuristica | JavaScript, HTML, CSS — December 2024
- Engineered a modernized snake game, utilizing JavaScript **Canvas API**, featuring adjustable speed, block size, and dynamic obstacle placement to enhance gameplay customization
- Optimized **UI/UX** with smooth controls and implemented dynamic visuals, including glow effects, grid color transitions, and text shadows, delivering an immersive futuristic experience

Accentify.Study | HTML, CSS, JavaScript, Python — October 2024
- Developed a user-friendly website to address **accent bias**, delivering a solution with a team of four
- Implemented accent analysis using **TensorFlow** to assess vocal characteristics and provide personalized feedback to users for accent improvement.

HarvestAid | HTML, CSS, JavaScript, Racket, Python, Flask, NextJs — October 2024
- Designed and implemented an intuitive user interface with a focus on **UX**, using **NextJs, React, and CSS** to create a seamless resource-sharing experience for farmers impacted by natural disasters.
- Developed an **efficient search engine** feature allowing users to filter resources by category, name, and location, enhancing accessibility and discoverability of essential items like produce, livestock, and equipment.

Skills

Languages: Python, C/C++, Java, SQL, HTML/CSS, JavaScript, TypeScript, Bash, Haskell
Technologies: Flask, Pandas, NumPy, Sklearn, Seaborn, React, NodeJS, NextJS, ExpressJS, Vite, Scrapy, RESTfull API
Tools: Git, Github, MongoDB, VsCode, Jupyter Notebook, Vim, Prismic.io, Figma, Vercel