Shervin Darmanki Farahani

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EDUCATION

University of Toronto   Toronto, ON
Bachelor of Applied Science in Computer Engineering + PEY Co-op   *Expected 2028*
- Relevant Courses: Programming Fundamentals, Digital Systems, Computer Organization, Software Design and Communication, Signals and Systems

University of Toronto   Toronto, ON
Bachelor of Applied Science in Engineering Science, Dean's List Scholar   *Sep. 2023 – May 2024*
- Relevant Courses: Introduction to Computer Programming, Computer Algorithms and Data Structures

EXPERIENCE

Front-End Developer   October 2024 – Present
University of Toronto Web Development Club   *Toronto, ON*
- Contributed to the development of a dynamic, responsive website using **React**, improving user experience and functionality for a **community of over 200 students**.
- Collaborated with 3 developers using Git to build **20+ React components** with **Tailwind CSS**, achieving 98% responsiveness across 5 core site features
- Designed **responsive UI** system handling 3 screen sizes, achieving 95% cross-browser compatibility

Full-Stack Web Developer   January 2025
U of T Hacks Hackathon   *Toronto, ON*
- Engineered a full-stack web application that processed over 100 data points in real time by integrating **AWS S3** for deployment, intermediate file storage, and multimedia management, alongside **AWS Lambda** for API call processing from the **Gemini API** and video processing from the S3 buckets.
- Automated infrastructure deployment using **Terraform**, reducing manual setup time by 40% and enhancing scalability for AWS services.
- Designed and developed a dynamic **React front-end**, achieving a 40% increase in user feedback.

Front-End Developer   August 2024
Hack the 6ix Hackathon   *Toronto, ON*
- Optimized AI calls by developing a prototype **caching system** that stored frequently accessed data, reducing redundant requests and **improving processing speed by 25%**.
- Developed a prototype **priority queue** system to dynamically rank and process submitted files, prioritizing AI calls and display order based on user-defined parameters, achieving a 20% reduction in overall task completion time.
- Translated 8 **Figma** screens into functional **React components**, accelerating feature deployment by 5 hours.

PROJECTS

AI-Powered Calendar Scheduler | *Python, JavaScript, CSS, HTML*   October 2024 – Present
- Designed a predictive model using **K Nearest Neighbours**, reducing event time prediction error by 25%
- Integrated the model with a **user interface** that allows dynamic event addition and real-time start-time suggestions, increasing scheduling accuracy by 30% based on type and duration of events.
- Leveraged **Pandas, Scikit-Learn, and PyTorch** to streamline data handling, preprocessing, and **model training**, creating a seamless data pipeline that cut data processing time by 50%.

Seam Carving Image Resizer | *C, Python*   March 2024
- Implemented a content-aware image resizing program using seam carving, achieving an average of 40% reduction in image size while maintaining image fidelity.
- Used **dynamic programming** and **Dijkstra's algorithm** to remove seams in $\mathcal{O}(height \times width)$ time.
- Used **Python** to convert over 10 images between PNG and BIN file formats in **testing**.

SKILLS

Technical: C, C++, Python, JavaScript, Kotlin, AWS S3, AWS Lambda, React, Node.js, Tailwind CSS, TypeScript, Next.js, Flask, HTML, CSS, Git, SciKit-Learn, PyTorch, Terraform, Pandas, Figma, Verilog, MATLAB, LaTeX, Data Structures & Algorithms, Object Oriented Programming, Machine Learning, Embedded Systems, Digital Systems
Soft: Initiative, Organization, Tenacious Work Ethic, Interpersonal Communication, Resourcefulness, Teamwork, Critical Thinking, Problem Solving, Research, Attention to Detail, Time Management, Analytical Skills