Suleyman Kiani

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Education

McMaster University — Hamilton, ON
Bachelor of Applied Science (BASc) in Computer Science — *Sept. 2018 - Nov. 2024*

McMaster University — Hamilton, ON
Master of Engineering (MEng) in Computing and Software — *Sept. 2025 - Present*

Experience

Associate Account Manager of Equipment Finance — Sept. 2025 - Present
Mitsubishi HC Capital Canada — *Burlington, ON*

- Structured and funded equipment deals valued at **$500K–$3M+** using in-depth credit analysis and financial modeling, achieving a **95% approval rate** across construction and transportation sectors.
- Developed and optimized financial models and amortization schedules with **TValue**, **Excel**, and **Power BI**, enhancing pricing precision by **15%** and improving deal profitability visibility.
- Streamlined interdepartmental processes by implementing **Salesforce Lightning** automations, reducing deal turnaround times by **30%** and ensuring seamless execution from origination to funding.
- Delivered data-driven insights via **Power BI**, conducting variance analysis that improved portfolio tracking accuracy by **20%** and supported strategic growth in multi-million-dollar asset classes.

Junior Web Developer — May 2021 - Jun. 2022
Giftcash Inc. — *Remote*

- Migrated a legacy **Python/Django** monolith to a **Node.js AWS Lambda** serverless architecture, boosting scalability by **15%** and reducing infrastructure costs by **20%** through efficient resource allocation.
- Optimized **PostgreSQL** database performance using indexing, caching, and query optimization, cutting response times by **20%** and enhancing user experience across web applications.
- Automated data extraction workflows with **Puppeteer** and **Axios**, streamlining gift card balance verifications and increasing operational efficiency by **25%** through reduced manual intervention.
- Established **Jenkins** and **GitHub Actions** CI/CD pipelines, enabling rapid development cycles and reducing deployment times by **30%**, fostering a more agile and responsive development environment.

Projects

SKompXcel StudioOS — Solstice Edition | *TypeScript, Next.js, AWS* — Jul. 2025 - Present

- Engineered a serverless cloud infrastructure on **AWS**, utilizing **SES** for email, **CloudWatch** for monitoring, ensuring **99.9% uptime** and seamless scalability for Pilates studio management.
- Integrated **Square API** for payment processing, automating billing and financial reporting, achieving a **30% reduction in manual errors** and ensuring PCI compliance.
- Developed a responsive frontend with **React** and **Tailwind CSS**, leveraging modular components and optimized state management to enhance user experience by **40% across all devices**.

Applify AI - AI-Powered Resume Optimization SAAS | *TypeScript, Next.js, OpenAI GPT-4o* — Feb. 2025 - Present

- Developed AI-driven resume enhancement using **OpenAI GPT-4o**, **boosting relevance by 30%** through real-time keyword analysis and skill categorization, tailored for ATS and recruiters.
- Engineered secure authentication with **NextAuth.js**, leveraging **JWT** and **MongoDB** to ensure robust user data integrity, supporting **80 paying users within 2 months** of platform launch.
- Integrated **Stripe** for subscription management, enabling premium feature access, **increasing user engagement by 40%** and establishing a sustainable monetization strategy.

SKompXcel Academic Solutions | *Next.js, Python, C++* — Jan. 2024 - Present

- Engineered a full-stack platform with **Next.js** and **Python**, scaling to support 80+ students, achieving **95% grade improvement** post four sessions, enhancing personalized tutoring.
- Deployed a cloud mentorship system on **GCP**, optimizing resource allocation, **reducing server costs by 30%**, and maintaining 100% uptime for 1,200+ tutoring hours globally.

- Developed a scalable web app using **Next.js**, enhancing user experience through a streamlined onboarding process, significantly improving user engagement and retention rates.

OverloadPT: Intelligent Fitness Tracking Platform | *Swift, SwiftUI, Combine* Jul. 2025

- Developed OverloadPT, an advanced iOS fitness tracking platform using **Swift** and **SwiftUI**, integrating **MVVM** architecture and **Coordinator pattern** for improved code maintainability and scalability.
- Engineered a Progressive Overload Engine with AI-driven machine learning to recommend weight progressions and detect plateaus, significantly optimizing user strength gains.
- Optimized app performance using **SwiftData** and **Combine**, achieving O(log n) in date filtering algorithms and enhancing responsiveness; also designed a sophisticated workout logging system for precision tracking and real-time performance visualization, increasing user engagement.

Custom Unix Shell System | *C, GNU Readline, POSIX* May 2025

- Developed a Unix-like shell in **C** to enhance command-line interface capabilities, supporting interactive command execution with built-in functions.
- Implemented core shell functionalities including command parsing, background execution, and I/O redirection, leveraging **POSIX** system calls for process management.
- Designed and integrated a piping mechanism to facilitate inter-process communication, allowing users to connect the output of one command directly to the input of another.
- Enhanced user experience by incorporating the **GNU Readline** library for history navigation and command line editing features.
- Engineered custom utilities like 'mystat' using the 'stat()' system call to provide detailed file metadata, improving file management capabilities.

Personal Full-Stack Portfolio Platform | *Next.js, React, Tailwind CSS* Oct. 2024 - May 2025

- Developed a full-stack portfolio platform with **Next.js** and **React**, integrating APIs like **Spotify** and **Instagram** to enhance user engagement with real-time updates and interactive elements.
- Achieved cross-device compatibility and high usability with a mobile-first design utilizing **Tailwind CSS**, leading to a **Lighthouse score above 90**.
- Implemented a Markdown-based CMS using **MDX** to optimize article integration and handling, and enhanced site performance with code splitting, lazy loading, and caching techniques for improved load times.

NYC Crime Analysis System | *Java SE 10, OpenCSV, Google Gson* Mar. 2023 - Apr. 2025

- Developed a desktop application to analyze and visualize NYC crime data, featuring a data processing pipeline using **OpenCSV** to manage four million NYPD records and binary search algorithms to enhance data retrieval.
- Enhanced application functionality with geo-specific crime lookup via **LocationIQ API** and a safest path navigation system employing **Dijkstra's algorithm** with crime-weighted edges, increasing location-based query accuracy and providing optimal, safe routes.
- Ensured software reliability and maintainability through comprehensive unit testing with **JUnit 4**, achieving high code quality.

Scalable Load Balancer System | *Python, TCP/IP Sockets, Multi-threading* Feb. 2025

- Developed and implemented a **Python**-based Load Balancer System with advanced algorithms like Round-Robin and Least Connections, enhancing high availability, fault tolerance, and server utilization through a multi-threaded architecture.
- Integrated health monitoring and fault tolerance features to manage server failures dynamically, coupled with the **Python Logging Module** for meticulous tracking of request flows, server status, and response times, bolstering system throughput and continuous service.

Micrograd Neural Network Framework | *Python, Jupyter Notebook, Micrograd* Jan. 2025

- Developed and optimized the Micrograd Neural Network Framework by implementing 'Value', 'Neuron', 'Layer', and 'MLP' components, facilitating automatic differentiation and backpropagation, and enhancing user comprehension of machine learning fundamentals.
- Utilized **Jupyter Notebooks** for interactive demonstrations, enabling users to visualize computational graphs and experiment with concepts such as forward pass and gradient descent, thus simplifying complex topics like gradient evaluation and parameter optimization.

Technical Skills

Programming languages: TypeScript, Swift, C, JavaScript, Java, Python, PHP
Frameworks: Next.js, React, Tailwind CSS, SwiftUI, Combine, Prisma, PyTorch, Django, Express
Databases: PostgreSQL, MongoDB, SwiftData, S3, DynamoDB
Cloud services & Tools: AWS, Vercel, GCP, Docker, GitHub Actions, Jenkins