Kiarash Sotoudeh

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EDUCATION AND HONOURS

University of Toronto — September 2023 - April 2027
Computer Science Specialist, Mathematics Minor, Statistics Minor (Bachelor of Science)

- **CGPA: 3.8/4.0**
- Focus in Artificial Intelligence (Specialist), Focus in Technology Leadership (Specialist)
- Computer Science Scholar Award ($132,000), Engineering Science Scholar Award ($128,000)
- UTMIST Vice President, Vic Records President, UofT AI Education Team Lead, YNCN Software Developer

PROFESSIONAL EXPERIENCE

Vice President of Infrastructure — September 2023 - Present
UTMIST (University of Toronto Machine Intelligence Student Team)

- Led and managed 2 AI projects (AI Open Source, AI Software Research), analyzing and contributing to AI libraries such as PyTorch and TensorFlow, resulting in the development of 3 comprehensive tutorials for students, improving the onboarding process for new members by 50%
- Developed and optimized instrumentation libraries in Python and Go for collecting and exporting telemetry data (traces, metrics, and logs) which reduced error reporting times and enabled faster debugging

Computer Science Student Success Intern & Mentor — May 2024 - Present
University of Toronto, Faculty of Arts and Science

- Spearheaded academic preparation programs for 8,000+ incoming first-year students by creating educational CS videos, with a 60% increase in student engagement compared to last year (Arrive Ready program)
- Conducted scientific research about CS education, and collaborated with professor Sadia Sharmin
- Hosted 48 webinars and study sessions for 400+ computer science students which improved students' understanding of foundational CS topics based on post-session feedback surveys with 99% of participants reporting increased confidence in starting their studies after attending

Software Developer — December 2023 - March 2024
GenAI Genesis

- Designed and implemented the GenAI Genesis website, leading to a 300% increase in website traffic and a 35% increase in customer signups within the first 3 months of launch using HTML, CSS, React, Next.js and Tailwind
- Developed backend functionalities using Firebase and Next.js to handle data storage and user authentication
- Created over 50 graphics which boosted social media engagement by 600% and increased LinkedIn and Instagram followers by 200% over three months

Software Engineer — January 2022 - August 2023
Arian Medical Laboratories, Inc.

- Developed a Laboratory Information System (LIS) in Java which reduced the time for abnormality detection by 50% and improved daily processing for 1,500 lab tests
- Collaborated with a team of 5 lab specialists to integrate genomic data generated by laboratory equipment into diagnostic algorithms by applying AI data processing algorithms to medical datasets, eliminating data input errors and saving 10+ hours per week in manual corrections
- Designed a SQL database to manage patient records which reduced query times by 60%

PROJECTS

Once Upon a Chat (Web App) *JavaScript, TypeScript, Next.js, React, Tailwind, Firebase, CSS, HTML*

- A dockerized app with Spotify Wrapped-style series of key moments and statistics about your social media chats
- Parsed WhatsApp messages and added semantic analysis using JavaScript

Sorting Algorithm Visualizer *Java*

- Built an app with an interactive UI that helped over 500 students better learn and visualize sorting algorithms

DietTree (Meal Picker Application) *Python, Tkinter, Pandas*

- A GUI-based application to search for meals based on dietary preferences by processing messy, real-world meal data with Pandas for dynamic filtering to suggest similar meals with a 80% reduction in meal search times

SKILLS

- **Programming & Scripting:** Python, Java, C, C++, JavaScript, TypeScript, SQL, R, Bash
- **Automation & Testing:** Automated Test Suites, Test Case Development, Selenium, CI/CD (Jenkins, GitLab CI, Travis), Test Pipelines
- **Version Control & Infrastructure:** Git, GitHub, GitLab, Docker, Kubernetes, AWS, GCP, Azure
- **Configuration & Orchestration:** Ansible, Chef, Puppet, OpenTelemetry
- **Web Development:** HTML, CSS, React, Next.js, Tailwind
- **Frameworks & Libraries:** PyTorch, TensorFlow, Pandas, Node.js, Django, Flask
- **Hobbies:** Music Production, Creative Writing, Piano, Electric Guitar, Soccer, Skateboarding