

# Ardavan Shahrabi

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## PERSONAL STATEMENT

Detail-oriented Computer Science graduate with a strong foundation in software development, data structures, and cybersecurity. Experienced in full-stack development, DevOps, and AI-driven applications, with a proven track record of leading technical projects, publishing research, and winning hackathons. Passionate about problem-solving, innovation, and collaborating with cross-functional teams to develop efficient and scalable solutions

## EDUCATION

**Bachelor of Computer Science with honours (First Class Honours), (GPA: 3.93 / 4.3)** Sep 2020-May 2024  
*Dalhousie University* *Halifax, NS*

- Sexton Scholar/Distinctions (Dalhousie University) (x4): Awarded for academic excellence.
- Certifications: DevOps Foundations (Shiftkey Lab)
- Certifications: Communication Technologies and Cyber Security

## PROJECTS

**JuniorDevForge** | *Node.js, React, MongoDB, Git* [\[view website\]](#) Sep 2023- Dec 2023

- Collaborated with a team of 6 to develop a platform to assist junior developers by enabling collaborative project development and providing industry-relevant resources.
- Designed and implemented database architecture using MongoDB to ensure efficient data management.
- Integrated design thinking principles into the project, resulting in a user-friendly product with enhanced usability.
- Successfully deployed the platform to provide junior developers to form teams and collaboratively build real-world projects.

**MONI-k** | *C* Dec 2022- Aug 2023

- Implemented data structures and algorithms to efficiently index large text datasets for genetics studies.
- Co-authored a paper that was accepted by the Annual Symposium on Combinatorial Pattern Matching.

**Maverick** | *Java, Spring Boot, JUnit, Mockito, GitLab, JavaScript, Node.js, JWT, React* May 2022- Sep 2022

- Led a 5-developer Agile team designing and implementing a task management website with RESTful API.
- Implemented CI/CD pipelines and runners with GitLab for reliable development, achieving 66% test coverage.
- Facilitated mob programming sessions to enhance code ownership among all team members.
- Completed the project with the highest grade in the class.

**Academic Performance Analysis — Data Visualization** | *R, Data Visualization* May 2022- Sep 2022

- Analyzed a comprehensive dataset from Kaggle, focusing on variables impacting students' academic performance, using Python and data visualization tools.
- Developed a linear regression model to quantify the impact of various factors on students' grades, with a focus on mathematics performance.
- Created and presented data visualizations to communicate findings, revealing that student absences have the greatest negative impact on academic performance.
- Collaborated in a team of three to design, implement, and interpret the results, concluding that multiple factors, such as parental support and study habits, significantly influence academic success.

## AWARDS

**1st Place, Agentic AI Hackathon** Nov 2024  
*Volta* *Halifax, NS*

- Collaborated with a team of six to develop "WhoRU?", an AI-powered application designed to support professional networking by capturing and organizing key interaction details within a 10-hour timeframe.
- Managed multiple development areas in a winning AI hackathon project, including database setup, front-end development, and OpenAI API integration with Python. for a winning agentic AI project that secured first place among multiple competing teams.
- Spearheaded comprehensive technical documentation and delivered compelling project presentations, communicating effective AI solutions to stakeholders while ensuring maintainable codebase for team collaboration.

## EXPERIENCE

## Founder & Developer

Nov 2024- Present

*WhoRU? (Startup)*

*Toronto, ON*

- Building an AI networking app that helps professionals remember and manage important details about people they meet, currently evolving from award-winning hackathon project to market-ready product.
- Iterating on the initial prototype by enhancing AI features including voice transcription and smart suggestions, with focus on user testing and product-market fit.

## IT Support Specialist

Dec 2023- Dec 2024

*ByDesign Embroidery & Screen Print*

*Halifax, NS*

- Provided technical support, maintained and updated company systems, and set up workstations for new employees, ensuring seamless operations and security compliance.
- Created user guides for common technical procedures and provided basic software training to staff members.
- Developed an internal knowledge base of 10+ user guides covering daily IT procedures (printer setup, password resets, remote access), conducted bi-weekly training sessions for groups of 5-10 employees on Microsoft Office and company software.

## Research Assistant [[arxiv.org/abs/2202.05085](https://arxiv.org/abs/2202.05085)]

Feb 2023-Aug 2023

*Dalhousie University*

*Halifax, NS*

- Co-authored a research paper on "Combinatorial Pattern Matching," which explores advanced algorithms for efficiently identifying and indexing specific patterns in large genomic datasets. The paper was published in Volume 259.
- Optimized query processing, aiming to reduce time complexity, potentially cutting processing time for large datasets by over 50%, resulting in much faster data retrieval
- Developed space-efficient indexing, expected to decrease memory usage by approximately 50%, enabling more scalable solutions for processing large genomic datasets.
- Projected to reduce data processing time from several hours to under an hour for large-scale genomic analyses, greatly improving operational efficiency.

## Student Coordinator at Shiftkey Lab (Volunteer)

June 2023-Oct 2023

*Dalhousie University*

*Halifax, NS*

- Guided 40+ learners per session in Python coding, answering questions, clarifying concepts, and providing one-on-one support, resolving 90% of coding issues in-session.
- Assisted students with onboarding, answering questions, and providing guidance throughout their experience at the lab sessions.
- Offered personalized assistance to students, addressing specific coding challenges and ensuring that each child felt confident in their understanding of the material.
- Organized coding resources and materials to ensure students had easy access to tools that supported their learning.

## TECHNICAL SKILLS

**Languages:** Java, Python, SQL, JavaScript, R, Go, HTML/CSS

**Frameworks:** Next.js, TailwindCSS, JUnit, Mockito, React, Node.js, Spring Boot

**Developer Tools:** Docker, Git, IntelliJ, VS Code, PyCharm, PyTorch Wireshark

**Libraries:** React, framer motion, Shadcn, Numpy, pandas, Matplotlib

## PROFESSIONAL SKILLS

- Strong analytical and problem-solving abilities, with experience optimizing algorithms and system performance.
- Effective communicator with the ability to explain complex technical concepts to diverse audiences.
- Proven ability to work in fast-paced, Agile environments, balancing multiple projects and deadlines.
- Detail-oriented approach to software development, ensuring high-quality, maintainable, and secure code.

## PUBLICATIONS

I.Tatarnikov, A. Shahrabi Farahani, S. Kashgouli, and T. Gagie, "MONI Can Find k-MEMs," 34th Annu. Symp. Comb. Pattern Matching, vol. 259, pp. 26:1-26:14, 2023, doi: 10.4230/LIPICS.CPM.2023.26.

## Availability & Work Authorization

- Open to full-time opportunities in Toronto, ON
- Permanent Resident of Canada