

ARSHJOT GHUMAN

Winnipeg, MB, CA | P: +1 (204) 962-8584 | arshjots11@gmail.com | [LinkedIn](#) | [GitHub](#) | [Website](#)

SKILLS

Languages: JavaScript/TypeScript, PHP, HTML, CSS, Python, C/C++, SQL, Go, Bash
Tools: Git, Docker, Kubernetes, OpenShift, Jenkins, AWS, GCP, Selenium, MongoDB
Frameworks: React, Angular, Vue, Node.js, Java Spring Boot, OpenCV, OpenGL, PyTorch, TensorFlow
Additional: HPC (CUDA C++, CuPy), Machine Learning (Deep Learning, Computer Vision, NLP)
Soft Skills: Problem solving, collaboration, communication, organizational, critical thinking, fast learner
Fundamentals: Data Structures, Algorithms, UNIX/Linux operating systems, Containerization, Statistics

WORK EXPERIENCE

THE UNIVERSITY OF WINNIPEG | Winnipeg, MB, Canada

Sept. 2023 – Present

Academic Support Roles

- **Teaching Assistant:** Led instruction in various programming languages equipping students with essential software development skills (Data Structures & Algorithms, Machine Learning, Data science).
- Supervised approximately 150 students (8 courses) in a single academic term and marked assignments, labs and exams.
- **Tutor:** Provide specialized tutoring in Linear Algebra, Calculus and programming, significantly enhancing students' understanding by 80% and increasing class averages by 10%.
- **Lab Demonstrator:** Demonstrated labs for students in UofW PACE program. Migrating infrastructure to AWS/GCP/Azure and setting up Windows server and CentOS server.

HOMETRUMPETER LLC. | Springfield, Illinois, USA

Sept. 2023 – April 2024

Full Stack Developer (Co-op)

- Migrated the entire Flutter codebase to React, integrating additional features and enhancing the React Native application for improved performance and user experience.
- Served in multiple capacities including Machine Learning Engineer and QA Engineer
- Architected a GitLab CI/CD pipeline from scratch, achieving a 75% reduction in deployment time on OpenShift, which significantly accelerated the software development lifecycle.
- Developed a chatbot using RASA and SBERT, substantially increasing user engagement.
- Thoroughly documented CI/CD workflows and API processes to ensure seamless knowledge transfer.

RELEVANT PROJECTS

[CHIP-8 Emulator](#) | C, C++, CMake

- Engineered a C++ emulator to run CHIP-8 games on modern devices with minimal CPU usage.
- Demonstrated ability in low-level programming and tuning assembly language for software compatibility.

[Online Course Registration System](#) | PHP, HTML, CSS, MySQL

- Developed a web-based platform to facilitate streamlined course registration using PHP.
- Designed user-friendly responsive interfaces with real-time updates on course availability.
- Implemented features including user authentication, CRUD operations, and database management.

EDUCATION

THE UNIVERSITY OF WINNIPEG | Winnipeg, MB

May 2019 – June 2024

Honours Bachelor of Science (B.Sc. Hons.) in Applied Computer Science; Minor in Mathematics

- Student of Highest Distinction 2020-2021, 2023-2024
- Academic Proficiency Scholarship Recipient
- **Relevant Coursework:** Web development; Operating Systems; Data Structures; Algorithms; Artificial Intelligence
- Voluntary work at Science Rendezvous (May 2023, May 2024)
 - Assisted in designing and performing the activities to explain science concepts to kids of grade 4-7.