

Harir Hammadi

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Skills Summary

Programming Languages:	Java, Python, JavaScript, TypeScript, C/C++, C#, Bash, PHP, HTML/CSS
Databases:	SQL, PostgreSQL, MySQL, MariaDB, SQLite, NoSQL, Firebase
Frameworks & Libraries:	Spring Boot, React, Node.js, Hibernate, JWT, OAuth, JSP, React Native, jQuery, Bootstrap
Cloud & DevOps:	AWS (EC2, S3, Lambda), Docker, CI/CD Pipelines, Linux, NGINX, Apache, Azure, GCP
Developer Tools:	Git, GitHub, GitLab, Jira, Postman, JUnit, PyTest, Jest, Maven, Gradle, IntelliJ, VS Code, Eclipse
Methodologies:	REST APIs, Microservices, System Design, Unit Testing, Agile/SCRUM, MVC, SDLC

Work Experience

RPA Developer and Trainer Intern, Mitacs – Toronto, ON	Sep 2024 – Dec 2024
<ul style="list-style-type: none">Automated intern application system using Power Automate, HTML/CSS parsing and SQL queries, orchestrating workflows that reduced processing time by 70%.Implemented data extraction pipelines with SQL database integration for 100+ applications, supporting form processing, profile creation, and uploads.Trained 10+ staff members on workflow troubleshooting and optimization, creating documentation for self-sufficiency.	
Software Developer and Consultant Intern, BDO – Toronto, ON	May 2023 – Aug 2023
<ul style="list-style-type: none">Developed Power Apps with Azure and RESTful APIs for Suncor, boosting workflow efficiency by 20%.Created sales propensity models and Power BI dashboards with SQL queries for executive forecasting and reporting.Executed QA testing for enterprise applications in Agile sprints, identifying critical defects in Jira and Confluence.Delivered training on ChatGPT and Power Platform to 10+ staff, creating documentation adopted organization-wide.	
Software Engineer Intern, TD Bank – Toronto, ON	Jan 2023 – Apr 2023
<ul style="list-style-type: none">Resolved critical 5-year-old defect in Java-based loan processing application, decreasing support calls by 20-50 daily.Debugged and optimized SQL queries and HQL in loan origination systems, enhancing performance and eliminating timeouts in legacy JSP/Servlet apps.Delivered and shipped production features in SAFe Agile/SCRUM teams across 3 sprints, participating in code reviews with Jira tracking.	
Software Developer Intern, University of Guelph – Guelph, ON	Sep 2021 – Dec 2021
<ul style="list-style-type: none">Automated course infrastructure using Docker and VirtualBox, slashing setup time from hours to minutes by preconfiguring Java VMs.Built 10+ Java applications with JUnit test suites, including GUI-based board game and Jupyter notebooks demonstrating OO design patterns.Created technical documentation using Git and Apache Wiki, developing deployment guides enabling independent environment setup.	

Projects

CarShop Management App Independent Project	2025
<ul style="list-style-type: none">Designed and developed full-stack car inventory system using Java, Spring Boot, React, and TypeScript.Integrated JWT authentication with role-based access control, securing user management and data access.Architected RESTful APIs with MariaDB supporting CRUD operations, accelerating UI responsiveness by 30%.Automated testing and deployment with JUnit, Docker, and AWS, streamlining release cycles by 25%.	

AI Postcard Generator | Independent Project2025

- Constructed full-stack web app using **React**, **TypeScript**, **Node.js**, and **Cloudflare Workers AI** to generate AI postcards.
- Integrated **Workers AI API** for prompt engineering and image generation with **sub-3s latency**.
- Deployed **RESTful APIs** and frontend via **Cloudflare Pages** with **R2 storage** for scalable image hosting.

Cloud VM Deployment Automation | University of Guelph2024

- Built **Python automation tool** to provision and configure **Azure** and **GCP VMs**, shrinking deployment time by **40%**.
- Established **rollback mechanisms** and **structured logging** to improve stability and debugging efficiency.

Multiplayer Gaming Platform | University of Guelph2024

- Constructed real-time multiplayer platform using **JavaScript**, **PHP**, **MySQL**, and **jQuery** with concurrent user scalability.
- Optimized database queries, improving leaderboard latency by **40%** during peak load.
- Deployed **CI/CD pipelines** with **Docker** and **NGINX**, lowering deployment failures by **30%**.

Education

Bachelor of Computing (Co-op) in Software Engineering with Honours, University of GuelphSep 2019 – Jun 2025

- 4.0 GPA**
- Dean's Honours List:** Winter 2020 – Winter 2025
- Relevant Courses:** Data Structures, Algorithms, Cloud Computing, Operating Systems, Mobile Computing, AI/ML

Training & Certification

Professional & Career Development Record (PCDR) | University of GuelphJun 2025

- Awarded upon completion of 4 co-op academic terms

Hackathons

Hack the Chain Hackathon | Major League Hacking2025

- Developed a **Java-based beatbox app** with GUI using **Swing** and **MIDI sequencing**, showcasing frontend development skills.
- Implemented real-time beat generation, input handling, and tempo control with performant, maintainable code.

Local Hack Day Hackathon | Major League Hacking2019

- Created an interactive puzzle game for LCD display using **Arduino C++** and **Raspberry Pi**.
- Designed game logic and input handling system, securing **2nd place** finish through technical innovation.

Extra-Curricular

Society of Computing and Information Science (SOCIS), University of GuelphSep 2019 – Apr 2025

- Participated in hackathons and technical workshops, fostering cross-functional collaboration among computing students.

Guelph Women in Computer Science (GWICS), University of GuelphSep 2019 – Apr 2025

- Engaged in networking and mentorship events supporting diversity in computing and leadership development.

AIESEC, University of GuelphSep 2019 – Apr 2025

- Supported an international student exchange program by Coordinating meetings and events and assisting participants with applications.