

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
• Automated intern application system using Power Automate, HTML/CSS parsing and SQL queries , orchestrating workflows that reduced processing time by 70% .	
Software Developer and Consultant Intern, BDO – Toronto, ON	May 2023 – Aug 2023
• 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
• 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 time-outs 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
• 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
• 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 Project

2025

- 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 Guelph

2024

- 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 Guelph

2024

- 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 Guelph

Sep 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 Guelph

Jun 2025

- Awarded upon completion of 4 co-op academic terms

Hackathons

Hack the Chain Hackathon | Major League Hacking

2025

- 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 Hacking

2019

- 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 Guelph

Sep 2019 – Apr 2025

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

Guelph Women in Computer Science (GWICS), University of Guelph

Sep 2019 – Apr 2025

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

AIESEC, University of Guelph

Sep 2019 – Apr 2025

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