JANE AL-SHIHABI

Waterloo, Ontario, Canada

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Education

University of Waterloo   **Sept 2022 – Apr 2027**
B.A.Sc, Systems Design Engineering   *Waterloo, Ontario*

Istanbul Technical University   **Sept 2025 – Jan 2026**
B.A.Sc, Systems Design Engineering (Exchange term)   *Istanbul, Türkiye*

<u>Courses</u> include: Data Structures and Algorithms, Introduction to C++, Digital Systems, Probability and Statistics

Technical Skills

Languages: TypeScript/JavaScript, HTML, CSS, Python, SQL, C++, Java
Tools: React, VSCode, GitLab, DBeaver, Jest, Mocha/Chai, Git, Docker, Pydantic, FastAPI, SSMS, Azure DevOps, Swagger API, IntelliJ IDEA, Fluent UI, Bootstrap, Tailwind CSS, Hugo, Netlify, Jira
Methodologies: Agile methodologies, software testing, fluently trilingual (English, French, and Arabic)

Experience

Front-end Developer   **Jan 2025 - Apr 2025**
Nuvation Energy   *Waterloo, Ontario*
- Used **React** with **TypeScript** in an Ubuntu Linux distribution to develop **25+** new features and bug fixes for Nuvation's various hardware management platforms, each with different architectures
- Modeled relational data with Sequelize and wrote and ran database migrations to the DB manager, DBeaver
- Utilized React Microsoft Fluent UI component **library** and used its documentation to make design decisions
- Used good practice Git workflows by frequently rebasing, performing PR reviews, and resolving CI pipeline failures
- Self-directed a term project, including requirement gathering, codebase **architecture** and design, implementation
- Wrote **automated** tests for routes/models, API hooks and views using Jest and Mocha/Chai for each developed feature

Full Stack Developer   **Sept 2024 - Apr 2025**
UW Blueprint Design Team, LLSC   *Waterloo, Ontario*
- Developed backend API routes, models, and schemas in **Python** using **FastAPI** with Pydantic for a participant-volunteer matching platform for the Leukemia and Lymphoma Society of Canada
- Set up React + Typescript frontend and created pages with Chakra UI components based on Figma prototype

Software Developer   **Jan 2023 - Apr 2023**
Brock Solutions   *Kitchener, Ontario*
- Developed software for a manufacturing execution system (MES) used in an airbag manufacturing facility for **Tesla, Toyota, Ford**, and other major brands in order to streamline production process
- Developed and optimized **backend** of MES using Java in IntelliJ and SQL, increasing **database** query efficiency **80%**
- Developed **frontend** using JavaScript in the Thingworx framework (a Node.js wrapper), all in a **Linux** environment
- Implemented, tested, and maintained **REST API** in Swagger to ensure clean integration of new MES components
- Utilized **Docker** to containerize applications, ensuring consistent development and production environments
- Used **Agile** methodologies in a scrum team with daily stand-ups and weekly sprint planning/overview meetings

Software QA   **May 2024 - Aug 2024**
Government of Canada - Transport Canada   *Waterloo, Ontario*
- Executed and documented over **200** manual tests for a security application platform for **two major** production releases
- Wrote automated test scripts in **Python** using **Selenium** to accelerate existing manual testing processes
- Collaborated with **developers** to efficiently locate root cause of bugs and resolve them under tight deadline constraints

Projects

Mot du Jour (Word of the Day)   **Project Link**
Waterloo, ON   *Web Development, APIs, UX/UI Design*
- Developed a web app using **React + Vite** that parses dictionary **API** response and presents a daily vocabulary word

Web Developer   **Project Link**
Personal Website/Portfolio   *Web Development and Design*
- Developed my personal website/portfolio, using React + Typescript and **Netlify** for deployments in a **Mac** environment
- Used the **bootstrap** component library to efficiently create visually appealing UX/UI design and added CSS animations