

Barbod Habibi

ph.barbod@gmail.com | (437) 365-1382 | github.com/Bitstachio | linkedin.com/in/barbodhabibi

SKILLS

- **Languages:** Java, C#, Python, SQL, JavaScript, Typescript, HTML, CSS, C
- **Frameworks:** React, Spring Boot, Next.js, Node.js, Express, Nest, Selenium, Flask
- **Tools:** Git, Postman, Android Studio, Unity, Docker, Jenkins, Firebase, Jira, Google Cloud Platform

WORK EXPERIENCE

Full-Stack Developer | KPM Power Inc. May 2025 – Aug 2025

- Built a **React** assembly navigator to migrate data retrieval from a high-latency third-party software to an internal service, reducing component lookup time from **~30s** to **under 1s**
- Engineered a real-time monitoring system for **30** production-line kiosks using **Node.js**, **Express**, and **Socket.io**, enabling **instant fault detection** and remote status updates
- Centralized kiosk session management by migrating volatile client-side timers to a persistent backend with **SSE**, **ensuring data integrity** during intermittent kiosk failures

Back-End Developer | Ministry of Children, Community and Social Services May 2024 – Aug 2024

- Developed RESTful services with **Java** and **Spring Boot** to enable reliable handling of newborn screening data, supporting **52** public health agencies across Ontario
- Developed and executed a data validation suite to flag and automatically remediate **120,000+** legacy record inconsistencies, ensuring **100%** compliance with new data standards
- Containerized front-end and back-end with **Docker** to **fully eliminate** environment-related deployment failures

Research Assistant | York University, Conceptual Modelling Group May 2024 – Aug 2024

- Collaborated with a **6-person research** team to implement a Bitcoin consensus simulator in **Java**, enabling comparative analysis of Proof-of-Work (PoW) performance against alternative distributed ledger protocols
- Eliminated redundant tests and model boilerplate using **Mockito** and **Lombok**, reducing codebase size by **20%**
- Streamlined developer workflow by migrating to **Maven** and **GitHub Actions**, replacing manual JAR builds and ad-hoc testing with automated **CI pipelines** ensuring reliability and compliance with Google Java Style

QA Automation Developer | Ministry of Children, Community and Social Services Sep 2023 – Apr 2024

- Developed a test automation codebase using **Java** and **Selenium**, achieving **83% coverage** of the regression suite and reducing average regression testing time by **3 business days**
- Automated **100%** of test data preparation workflows by creating a suite of **MS SQL Server** stored procedures and generated spreadsheets with **ApachePOI**, **eliminating a full day** of manual verification every release cycle
- Mitigated authorization drift by automating role-based security audits in **Postman** and **identified 8 critical** authorization inconsistencies where legacy API endpoints failed to enforce modern access control policies

EDUCATION

Computer Science, Honours B.Sc. | York University Sep 2021 – Apr 2026

- **GPA:** 3.8/4.0
 - **Coursework:** Artificial Intelligence, Machine Learning, Network Protocols, Distributed Computing, Game Dev
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DeekSeeker | C#, Unity, Tiled

- Collaborated with a **team of 5** to design, develop, and **publish** an indie underwater exploration game on **itch.io**

Real-time Multiplayer Game | Java, Android Studio, Spring Boot, Firebase, STOMP, Mockito, JUnit

- Developed a multiplayer sequence memory game for **Android** and created an API implementing the **STOMP** protocol to enable **two-way** client-server communication for **real-time** gaming and matchmaking