

# Chehranai Fozil

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## EXPERIENCE

### Software Engineer

*North Power Industries*

2025 – Present

*Toronto, ON*

- Building an auto-parts e-commerce platform enabling search, advanced filtering, and side-by-side comparison of **3,500+ products**
- Developing an in-house CMS and inventory management system to replace ShowMeTheParts as the cataloging service, consolidating product data from multiple platforms into a unified database and eliminating **\$18K/year in fees**
- Integrating Fishbowl Inventory Management to synchronize stock levels and ensure accurate, real-time inventory across multiple warehouses and countries
- **Tech Stack:** React, TypeScript, TanStack Router and Query, Django, MariaDB, AWS

### Software Engineer

*gloApp (early startup)*

2024 – 2025

*Toronto, ON*

- Designed and implemented mobile-first architecture using React Native (TypeScript) and Django (Python) for a wellness-related app
- Integrated SQL-based relational databases, secure authentication providers and responsive UI
- Built and optimized RESTful APIs for scalable client-server communication, leveraging Docker containers and CI/CD pipelines for cloud-ready deployments
- Launched the app in Regina, Saskatchewan, onboarding **20+ freelance beauticians**; however, could not find product-market fit and a sustainable monetization model
- **Tech Stack:** React Native, TypeScript, Django, SQL, Docker, third-party APIs, AWS

### Full Stack Developer

*inference, Inc.*

2022 – 2024

*Toronto, ON*

- Developed and scaled an in-house onboarding framework by extending **Shepherd.js** with custom interactivity and persistent state across multiple URLs
- Built a no-code CMS for onboarding creation, enabling a team of **10+ UI/UX designers** to design and launch flows independently, reducing engineering overhead
- Automated data preprocessing for ML pipelines with Python RegEx filters, streamlining QC workflows and pathology slide analysis
- Deployed centralized error reporting and a dynamic troubleshooting guide across **10 Mayo Clinic Health Systems scanners**, improving visibility and reducing downtime
- **Tech Stack:** React, SCSS, styled-components, Toasts, custom hooks, Material UI, Node.js, Sails.js, MongoDB

## PERSONAL PROJECTS

### Farhang Dictionary

2025 – Ongoing

- Developed a cross-platform **mobile** explanatory dictionary for the Tajik language, addressing the absence of a comprehensive online dictionary with support for **10,000+ words**
- Implemented vocabulary games and spaced repetition flashcards to drive user engagement
- Exploring ML-based pronunciation assessment methods for Tajik as part of ongoing development
- **Tech Stack:** React Native, React Navigation, TypeScript, Django, SQL, Docker, Caddy, AWS

### Tajik Heritage

2024 – Ongoing

- Built a multilingual cultural preservation **web app** with a RESTful backend, supporting full-text search via Meilisearch
- **Tech Stack:** Next.js, React, TypeScript, Node.js, MongoDB, Docker, Caddy, AWS

## TECHNICAL SKILLS

**Languages:** JavaScript, TypeScript, Python, SQL, Bash

**Frameworks:** React, React Native, Django, Flask, Node.js, Express, MongoDB, MariaDB

**Tools:** Docker, AWS, Git, CI/CD, Caddy, Postman

## EDUCATION

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<b>McGill University</b>	2018 – 2020
<i>MSc. in Biochemistry (GPA: 4.0/4.0)</i>	<i>Montreal, QC</i>
<b>Maryville College</b>	2013 – 2017
<i>B.A. in Biochemistry, Minor in Business (GPA: 3.75/4.0)</i>	<i>Maryville, TN</i>

## PUBLICATIONS

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Patel, P. S., Algouneh, A., Krishnan, R., Reynolds, J. J., Nixon, K. C. J., Hao, J., Lee, J., Feng, Y., **Fozil, C.**, Stanic, M. *et al.* *Excessive transcription–replication conflicts are a vulnerability of BRCA1-mutant cancers.* Nucleic Acids Research, 2023. 