

# Parnia Yazdinia

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## EDUCATION

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### McMaster University

B.Eng. in Software Engineering — GPA: 3.7/4.0

Sep 2024 – Apr 2028

*Relevant coursework: Data Structures & Algorithms, Object-Oriented Design, Discrete Mathematics, Linear Algebra*

## EXPERIENCE

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### Inspirit AI—Research and Development Intern

May 2024 – July 2024

- Built a Python-based ML toolkit that automated data preprocessing and model evaluation.
- Implemented and optimized recommendation algorithms (collaborative filtering, content-based) to personalize learning resources for peers.
- Loaded NASA Kepler time-series data, engineered features for exoplanet transit detection and applied ML models to balance common and rare cases.
- Collaborated with MIT undergraduates on data preprocessing and model evaluation to ensure accurate exoplanet detection results.

### Executive Member — Google Developer Student Club McMasterU

Sep 2024 – Apr 2025

- Co-led bi-weekly workshops covering Git/GitHub, REST APIs, and full-stack app building with React.
- Mentored beginner developers through GDSC Labs projects; 3 mentees published apps by semester-end.
- Took ownership of DevFest McMaster, coordinating logistics for 80+ participants, sponsors, and Q&A session.
- Contributed to setting the club's GitHub space and coding templates, which 40+ student projects now use to keep code organized and consistent.

## PROJECTS

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### Code Complexity Dashboard | FastAPI, Python, REST API, React, Vite, CSS

- Built a production-ready FastAPI pipeline to handle GitHub push events across multiple repos, reducing analysis latency by 30%.
- Designed and styled a retro-coding React/Vite frontend, featuring dynamic REST fetches of analysis data, and animated grid background with CSS.
- Demonstrated full stack of modern Python async frameworks (FastAPI) and JS toolchains (Vite).

### QueueLens | React, Vite, React-Leaflet, FastAPI, PostgreSQL 15, REST

- Designed and implemented a PWA enabling users to submit and view live wait-times for any public queue (cafés, clinics, government offices) using FastAPI and PostgreSQL 15.
- Developed an interactive React + Vite frontend with React-Leaflet map integration.
- Devised TTL decay algorithm to automatically expire stale reports, improving average accuracy by 40 %.

## WORK EXPERIENCE

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### Kumon learning center — Teacher Assistant

Sep 2023 – Apr 2024

### STEM Camp Leader — Richmond Hill Community Center

July 2024 – Aug 2024

## TECHNICAL SKILLS

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**Languages:** Python, Java, JavaScript, HTML/CSS, C++

**Frameworks/Tools:** FastAPI, React, Vite, SQLAlchemy, Git, Linux, PostgreSQL

**Awards:** CSMC contest 2024 (Top 25%), Pascal contest 2022 (Top 25%), Galois contest 2021 (Top 25%)