

# MAHYAR JABERI

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## EDUCATION

**Honours BSc, Computer Science**, York University

Sept 2023 – Apr 2027 (Expected)

## SKILLS

**Languages** Python, JavaScript, TypeScript, Java, C, SQL, HTML/CSS

**Frameworks** React, React Native, Node.js, Express, FastAPI, Spring Boot, pandas, NumPy

**Databases** PostgreSQL, MongoDB, MySQL

**Tools** Git, Docker, Linux, Maven, Postman, Jupyter, Azure

## EXPERIENCE

### Software Developer

Nova Ventures

Sep 2024 – Present

*Toronto, ON*

- Leading development of goalkeeper performance analytics platform using React and TypeScript on the frontend and Python/FastAPI on the backend, currently piloted with professional-level goalkeepers
- Built real-time analytics dashboard featuring interactive goal heatmaps, shot distribution across 9 goal zones, and save rate trend analysis
- Designed and implemented multi-factor 100-point scoring system analyzing reaction time, positioning, and diving patterns to generate personalized training recommendations
- Architecting computer vision pipeline using OpenCV and YOLOv8 to automate shot detection and goalkeeper movement tracking from match footage

### App Developer & Database Intern

Sepantech

Mar 2024 – Aug 2024

*Remote, Sweden*

- Contributed to course management platform serving 500+ medical and physiotherapy professionals across Sweden, supporting enrollment, progress tracking, and certification workflows
- Designed 6+ MySQL database tables with normalized schema and optimized 12+ queries by adding composite indexes, reducing average query response time by 30%
- Developed 8+ backend API endpoints using Node.js for core features including user authentication, enrollment processing, course progress updates, and automated certificate generation
- Collaborated with cross-functional team of 3+ developers in Agile environment, participating in code reviews and sprint planning to deliver features on schedule

## PROJECTS

### Pet AI Assistant ([GitHub](#))

React, FastAPI, Python, MongoDB, BeautifulSoup4

- Built full-stack web application that delivers personalized dog food recommendations by matching pet profiles to 100+ products using a custom 100-point, multi-criteria scoring algorithm
- Developed RESTful APIs with FastAPI and MongoDB using async operations; engineered web scraping pipeline with BeautifulSoup4 to extract and persist nutritional data

### WealthTrack (Backend) (Mobile)

React Native, Node.js, TypeScript, PostgreSQL, Prisma

- Built cross-platform mobile application for tracking stocks, cryptocurrencies, and ETFs with real-time pricing; designed RESTful APIs with 12 endpoints and JWT authentication
- Integrated Yahoo Finance and CoinGecko APIs with intelligent caching layer, reducing external API calls by ~60% while supporting 17+ cryptocurrencies and 20+ stock tickers

### Dog Wash Booking System ([GitHub](#))

React, FastAPI, Python, SQLAlchemy

- Built full-stack appointment scheduling platform for pet grooming business using React and FastAPI, delivering MVP within 1-week sprint as part of 3-person team
- Implemented double-booking prevention algorithm with time-slot collision detection; developed admin dashboard with weekly calendar and real-time filtering