

Saad Bachaoui

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EDUCATION

University of Ottawa

Expected May 2028

Bachelor of Science, Computer Science; CGPA: 8.5/10

157 Laurier Ave E, Ottawa, ON K1N1K5

- **Coursework:** Data Structures and Algorithms, Computer Architecture, Operating Systems, Digital Systems, Data Communications and Networking, Probability and Statistics, Linear Algebra

EXPERIENCE

Post Office Clerk

May 2024 - Present

Canada Post

541 Montréal Road, Ottawa, ON K1K0V1

- Process 100+ packages and letters per shift, ensuring on-time delivery and 100% compliance with regulated mail procedures.
- Handle cash and debit transactions totaling \$2,000+ daily, balancing tills with zero end-of-day discrepancies.
- Troubleshoot POS terminals, barcode scanners, and printers to quickly resolve outages and keep operations running.

Cashier / Merchandiser

May 2024 - Present

Shoppers Drug Mart

541 Montréal Road, Ottawa, ON K1K0V1

- Processed 20-50 transactions per shift while keeping average checkout times under 2 minutes, even during peak hours.
- Trained and mentored new hires on POS and store procedures, reducing onboarding time by 30%.
- Provided ad-hoc technical support for cash registers and receipt printers to minimize downtime and avoid lost sales.

PROJECTS

ProcrastiMate

[GitHub](#) | [Production](#)

- Built a full-stack productivity app with vanilla JavaScript, Firebase Auth, and Firestore, featuring real-time synchronization across a 2,000+ line codebase.
- Developed a cross-platform mobile version with Capacitor and offline-first support, currently undergoing Google Play Store review.
- Implemented an advanced focus timer with background audio, service-worker caching, and a responsive UI optimized for web and mobile.

Tech: JavaScript, Firebase, Firestore, Capacitor, HTML/CSS, Service Workers, Vercel, GitHub Actions

Valex

[GitHub](#) | [Production](#)

- Built a real-time Kanban collaboration platform using WebSockets, enabling multi-user editing with collision detection.
- Integrated OpenAI GPT-3.5-Turbo for AI-powered task automation, reducing manual project management effort.
- Developed an interactive Three.js interface with optimized 60 fps rendering and adaptive performance for all devices.

Tech: TypeScript, Next.js, WebSockets, Three.js, Redis, Railway, PostgreSQL, Prisma, OpenAI API

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, SQL, HTML/CSS, Bash

Frameworks & Libraries: React, Next.js, Node.js, Socket.IO, Three.js, Firebase, Express.js, Prisma

Developer Tools: Git, PostgreSQL, OpenAI API, Vercel, Railway, GitHub Actions, Redis