

# Ahmad Elmahallawy

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## Skills and Qualifications

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**Programming Languages** | Java • Python • C++ • JavaScript • TypeScript • Node.js • HTML/CSS • PHP • C • C#

**Database Management Systems** | SQL (PostgreSQL, MySQL) • NoSQL (MongoDB) • Graph (Neo4J)

**Developer Tools** | Git • Figma • Jira • Trello • Postman • AWS CodeCommit • GitHub • Docker

**Libraries/Frameworks** | React • Spring Boot • Express • Bootstrap • Tailwind • Next.js • JUnit • Jest

**Languages** | English • French • Arabic

## EDUCATION

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**Bachelor of Engineering – Software Engineering Co-op**

**September 2021 – May 2025**

Concordia University, Montreal, QC

- **GPA:** 4.14
- **Awards:** Dean's List 2021-2023 & International Entrance Scholarship
- **Relevant Courses:** OOP I & II • Data Structures & Algorithms • Operating Systems • Database Management

## WORK EXPERIENCE

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**Teaching Assistant for Object Oriented Programming in Java**

**September – December 2023**

Concordia University, Montreal, QC

- Conducting weekly support sessions for a group of **200 students**, demonstrating their effectiveness in addressing course-related questions and assignment challenges
- Collaborating closely with professors to mark assignments and examinations, particularly those involving **Java**

**Software Developer Intern**

**January – August 2023**

Bombardier Inc. – In Collaboration with General Electric and Randstad, Montreal, QC

- Worked on a **web application** for the management of Bombardier's business jets by contributing to multiple UI
- Successfully resolved **numerous bugs during the internship**, leading to noticeable improvements in the overall efficiency and performance of the platform
- **Technologies Used:** React, JavaScript, TypeScript, MUI, CSS, APIs, AWS, JEST, Vite and Git

## PROJECTS

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**[Condo Management System Web and Mobile App \(demo\)](#)**

**January – May 2024**

Concordia University, Montreal, QC

- Led a team of 10 members, leveraging **Agile** methodologies and **microservices architecture**, to develop and deploy a condo management app and website, ensuring timely completion and successful implementation.
- Coordinated team efforts to integrate features such as user profiles, financial management tools, reservation systems, and request submission portals, delivering a user-friendly solution for condo owners and companies.
- **Technologies Used:** TypeScript, React, Node.js, NestJS, ExpressJS, PostgreSQL, Git, REST API and Expo
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**[XChange Web App \(demo\)](#)**

**February – April 2024**

Concordia University, Montreal, QC

- Led a team of 6 in the development of XChange, a web application aimed at facilitating affordable and convenient skill exchange, demonstrating **strong leadership** and **project management skills**.
- Successfully **implemented** features such as user registration, skill matching filters, real-time messaging, and a

rating/review system, contributing to the creation of a **user-friendly** and inclusive learning platform.

- **Technologies Used:** JavaScript, React, NodeJS, ExpressJS, MongoDB, Git, REST API

### Smart Home Simulator Web App

January – April 2024

Concordia University, Montreal, QC

- Spearheaded the development of a Smart Home Simulator web application, facilitating experimentation and optimization of virtual smart home environments.
- **Designed and implemented** features including house layout representation, user interaction dashboard, simulation parameter controls, and automation modules, enhancing household management efficiency.
- **Technologies Used:** TypeScript, React, Spring Boot, PostgreSQL, Vite, Git

### ConUHacksVIII Web Application

August 2023 – January 2024

HackConcordia, Montreal, QC

- Collaborated with a team of four as a key member of the Technology team at HackConcordia to build dynamic website for the university's next hackathon, which is **Quebec's biggest hackathon**, creating a robust platform.
- **Technologies Used:** React, Next.JS, Tailwind, Git, Docker, DigitalOcean, Node.Js, Express, and MongoDB

### Brilliant AI SaaS Web Application

July – August 2023

Personal Project, Montreal, QC

- A **full stack web application** with authentication, Conversation, Image, Code, Video and Music Generation using OpenAI (ChatGPT's creator) and Replicate AI APIs as well as a chat bot.
- Users have 10 free generations to use the services, then they need to upgrade to Premium for unlimited usage.
- **Technologies Used:** React, Next.JS, TypeScript, Node.Js, Prisma, Stripe, Git, Clerk and Crisp

### Procurement System Web Application

September – December 2022

Concordia University, Montreal, QC

- Team leader of a group composed of 7 members where we put **Scrum Agile methodology** into practice.
- The system allows end users to request the purchase of items which will result in automatically requesting quotations from suppliers of these items.
- **Technologies Used:** HTML, CSS, JavaScript, Bootstrap, SQL, PHP, Git

## **VOLUNTEER / Extra-Curricular Activities**

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### **Director of Technology for HackConcordia**

April 2023 – Present

Concordia University, Montreal, QC

- In charge of HackConcordia's official website and building ConUHacks website for the upcoming Hackathon to allow users to register and create a team.
- Helping other members of the team to arrange events and prepare for the hackathon.

### **VP Technology for SCS Concordia**

April – September 2023

Concordia University, Montreal, QC

- In charge of building and maintaining websites for SCS society such as their official website, Algotime and Clothing website.

### **VP Careers for SCS Concordia**

September 2022 – April 2023

Concordia University, Montreal, QC

- In charge of helping students improve their CV and interview skills.
- In charge of preparing students for technical interviews by solving algorithmic problems (AlgoTime Event).