

Nizar El Jurdi

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EDUCATION

Concordia University

Bachelor of Engineering, Software Engineering

Montreal, QC

Sep. 2018 – May 2023

EXPERIENCE

AI Software Engineer Intern

May 2025 – Aug. 2025

London, ON (Remote)

Sentri AI

- Contributed to multi node **LangGraph** LLM workflows with **15+ AI nodes** for intelligent questionnaire analysis
- Worked on hybrid vector search pipelines powered by **Azure OpenAI embeddings** and **Cosmos DB**
- Developed and tested **React/TypeScript** frontend components with **Fluent UI** and **real time streaming** integration with **FastAPI** backend AI services
- Presented weekly technical updates on AI workflow improvements, proposing node optimization strategies, achieving an overall **10% increase in enhanced system accuracy** and **25% latency reduction**
- Leveraged AI assisted development in **Cursor** to streamline coding and debugging, accelerating iteration speed

Software Engineer Intern

May 2024 – Dec. 2024

OBSoft

Beirut, Lebanon

- Architected a full stack AI powered interface generation system with **Node.js/Express.js** backend and **React** frontend integrating **OpenAI** and **Claude APIs** with 19+ specific coding rules for **natural language to code conversion**
- Developed comprehensive project scaffolding and management system supporting **multiple concurrent projects** with isolated environments, **automated file structure generation**, and dependency management
- Built intelligent code update system that **processes natural language user inputs** to automatically modify existing **Next.js** applications, generating production ready **React** components, pages, and styling using **Styled Components** and **Bootstrap 5**
- Integrated **Mongoose ODM** database system with **Mongoose ODM** featuring file versioning, CRUD operations, and atomic transactions for project management
- Implemented **WebSocket** based real time collaboration system with **live project updates** and **Monaco Editor** integration for professional code editing experience

TECHNICAL SKILLS

Languages: Python, JavaScript, Java/Kotlin, SQL (Postgres), NoSQL (Cosmos DB, MongoDB), HTML/CSS

Frameworks: Django, Flask, FastAPI, Node.js, React/TypeScript, LangGraph, JUnit, MaterialUI, Bootstrap

Developer Tools & Libraries: AWS, Azure, Kubernetes, Kafka, Elasticsearch, Docker, Unix, Git, GitHub, Jira, Confluence, Postman, Vercel, Figma, LucidChart/Drawio, Cursor, pandas, NumPy, Matplotlib, Power BI

PROJECTS

BudgetLens | Django, Kotlin, PostgreSQL, Azure, SendGrid API | GitHub

Aug. 2022 – May 2023

- Led an **11 member Agile team** to implement a **mobile app** for digital receipt storage and splitting expenses
- Built features for friend addition, receipt splitting, categorized expense tracking, and email receipt forwarding
- Integrated **OCR** to extract item details from receipt images, **cutting manual entry time by 90%**
- Led **acceptance/usability testing**, designing user story tests and **interviewing 30+ students** to analyze feedback and improve app features

Covigo | Django, JavaScript, MySQL, Tailwind CSS | GitHub

Jan. 2022 – May 2022

- Developed a **COVID 19 patient management system** for healthcare professionals and patients, in a team of 7
- Implemented secure multi role authentication, real time messaging with **RSA encryption**, appointment scheduling, health status tracking, and contact tracing capabilities
- Integrated **third party services** for **SMS** notifications and **QR code** generation for patient identification
- The system supports **1000+ concurrent users** with secure data handling and **HIPAA compliant** patient information management