

OUSSAMA JAMAL

COMPUTER SCIENCE

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Computer Science student at City University of Tripoli with hands-on experience in full-stack web development using React, TypeScript, Node.js, Express.js, and PostgreSQL. Developed multiple academic and personal projects involving authentication, database design, and modern web technologies. **Seeking a Summer Software Development Internship** to apply my technical skills, contribute to real-world projects, and continue growing as a software developer.

EDUCATION

City University of Tripoli — Bachelor's in Computer Science (Expected Graduation : Summer 2026)

PROJECTS

Smart Multi-Center Exam Scheduling and Optimization System

- **Tools Used:** React.js, Vite, TypeScript, Tailwind CSS, Shadcn/ui, Node.js, Express.js, JavaScript, PostgreSQL, Prisma ORM, JWT, RBAC, Jest
- **Key Results:**
 - Built a full-stack exam scheduling platform that automatically generates conflict-free schedules across multiple centers.
 - Reduced manual scheduling effort through automated conflict detection and resolution.
 - Implemented a **constraint-based scheduling engine** with hard and soft validation rules.
 - Designed multi-room allocation, shared-room scheduling, and schedule quality evaluation metrics to improve resource utilization.
 - Developed a normalized PostgreSQL database with 20+ interconnected entities and secure JWT-based authentication.
- **Live Demo:** <https://exam-scheduler-system.vercel.app>
- **GitHub:**
 - Backend: <https://github.com/oussamajamal003/exam-scheduler-backend>
 - Frontend: <https://github.com/oussamajamal003/exam-scheduler-frontend>

Ecommerce Food Delivery Web Application

- **Tools Used:** React.js, Context API, JavaScript, CSS
- **Key Results:**
 - Developed a responsive SPA for a food ordering platform using React.
 - Implemented authentication, shopping cart, checkout workflow, and global state management using Context API.
- **GitHub:** <https://github.com/oussamajamal003/Food-Delivery>

Shopping System / E-Commerce Frontend

- **Tools Used:** Angular 16, TypeScript, Angular Material, RxJS, Bootstrap
- **Key Results:**
 - Developed a responsive e-commerce platform featuring catalog, cart, and authentication functionality.
 - Implemented multi-language support (English/Dutch) and integrated APIs using RxJS.
- **GitHub:** <https://github.com/oussamajamal003/Shopping-system>

Flutter Notes Application

- **Tools Used:** Flutter, Dart, Isar Database, SQLite, Provider, SHA-256
- **Key Results:**
Built a secure cross-platform notes application with authentication and state management.
Implemented offline-capable CRUD operations using Isar DB across mobile, web, and desktop platforms.
- **GitHub:** <https://github.com/oussamajamal003/notes-app>

Student Management Application

- **Tools Used:** React, TypeScript, JavaScript, Node.js, Express.js, MySQL, Jest, Swagger.
- **Key Results:**
Developed a full-stack student management system with React and Node.js.
Implemented role-based access control (RBAC), API documentation, testing, and error handling.
- **GitHub:**
Backend: <https://github.com/oussamajamal003/StudentManagementApp>
Frontend: <https://github.com/oussamajamal003/StudentManagementAppFrontend>

TECHNICAL SKILLS

Frontend: React.js, TypeScript, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, Bootstrap, shadcn/ui

Backend: Node.js, Express.js, REST APIs

Databases & ORM: PostgreSQL, MySQL, Prisma ORM, SQL (Relational Database Design)

Programming Languages: C++, Java, Python

Tools & Technologies: Git, GitHub, Vercel, Render, Neon, GitHub Copilot (AI-Assisted Development)

Development Tools: Visual Studio Code, Visual Studio, IntelliJ IDEA

Platforms: Web Applications, Mobile Applications (Flutter)

Frameworks & Libraries: Flutter

Core Concepts: Data Structures & Algorithms, OOP, Frontend & Backend Architecture, Full-Stack Development (MERN), Agile Development, Software Testing, API Integration, Version Control, Responsive Web Design

Soft Skills: Problem Solving, Fast Learner & Self-Motivated, Strong Analytical Thinking, Effective Communication, Team Collaboration

ADDITIONAL INFORMATION

Courses & Certifications

React, Node.js, Express & MongoDB – The MERN Fullstack Guide (Udemy)

CCNA 1 & CCNA 2 (Cisco Networking Academy)

LANGUAGES

- English(B2)
- French(B2)
- Arabic (Native Speaker)