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# Jidar Ahmed Amin
**Software Engineering**

## Core Competencies

- **Web Application Development**
  - **Backend Engineering** (Typescript, Java)
    - RESTful API Design & Secure Coding Practices
    - Object-Oriented Design & Design Patterns
    - Test-Driven Development
  - **Software Services** (TypeScript/Next.js)
    - UI: Shadcn UI & TailwindCSS
    - Auth Sessions: NextAuth, JWT, OAuth2.0, RefreshTokens.
    - API Integration & Clean Middlware Enforcement
    - AI Integration & Smart Payment Processing
    - BaaS: Supabase (PostgreSQL), XataDB (PostgreSQL)
    - ORMs: Prisma ORM
  - **Frontend Engineering** (TypeScript/-JavaScript; React.js)
    - Component-Based Architecture
    - Routing, State & Store Management
    - Responsive UI & Accessibility (MaterialUI)
    - JS Charting Libraries (Recharts)
- **Infrastructure & DevOps**
  - Containerization & Orchestration (Docker, Kubernetes, OpenShift)
  - Cloud Container Registries (IBM Cloud CRC) Basics
  - Unix Command-Line
- **Familiar With**
  - CI/CD Pipelines (Jenkins Declarative Pipelines) & IaC (Ansible)
  - AI (Machine Learning & Deep Learning)

## Key Qualities

- Full-cycle problem solver with strong technical ownership.
- Modern stack passionate: Implements open-source solutions (Next.js) aligned with business requirements & security standards.
- Autonomous collaborator

## Languages

- English, French, Arabic

# Projects

**Feb. 2025** — **SentinelSift**
Neuro-symbolic AI service for community sentiment analysis and adaptive anomaly detection to protect digital ecosystems. FTC-compliant with truth-in-advertising; licensed Apache 2.0 + Commons Clause. **Tech:** Next.js, Hugging Face, Redis, OpenAI, Reddit API.

**Jan. 2025** — **Technical Insights Repository**
Authored a deep-dive series on performance tuning, coding best practices, DevOps practices, AI/ML concepts, and more - powered by my self-built Markdown/blogging engine.

**Sep. 2024 – Present** — **AI-Powered Code Optimization**
Platform for organizing and optimizing reusable code with an AI assistant. Key features: automated refactoring, quality metrics, API governance, logging, and payments. **Tech:** Next.js, TypeScript, PostgreSQL, Prisma, Monaco Editor, Hugging Face, LemonSqueezy.

**Feb. 2024 – Jul. 2024** — **FlyingLabs MasterSheet Platform**
Built a centralized MasterSheet for FlyingLabs to streamline operations. Implemented server-side logic, RESTful APIs, JWT-based auth, and email notifications. Collaborated in an Agile (SCRUM) team with Git version control. **Tech:** Java, Spring Boot (Web, Data, Security), React.js, SMTP.

**Oct. 2023 – Dec. 2023** — **Software Engineering Club Portal**
Developed a collaborative portal for students to share resources. Followed Agile (SCRUM) practices and Git workflows. **Tech:** React.js, Node.js, MongoDB, Vercel, RESTful APIs.

# Professional Experience

**Feb 25 - May 25, 2025** — **Immersive VR WebXR Prototype** at *Capgemini Engineering*, Casablanca
Spearheaded the design and delivery of a WebXR-based virtual showroom for automotive retail. Collaborated with UX designers and 3D Modeling teams to create an intuitive, immersive car-browsing experience enhancing customer engagement and providing actionable usage insights.

# Education

**2022 Present** — Engineering Program **Computer Engineering** at *National School of Applied Sciences*, Oujda
**Software Engineering and AI.**

**2020 - 2022** — Preparatory Program **Engineering Sciences and Techniques** at *National School of Applied Sciences*, Oujda

# Miscellaneous

**Skills Upgrading Timeline**
https://www.ahmedaminjidar.com/competencies/swd

**Technical Insights**
https://www.ahmedaminjidar.com/insights

**Jun. 10, 11, 12 2024** — **Participant** at *MIAthon National AI Competition*, Oujda
AI Hackathon.

**Sep. 2023 - May 2024** — **Instructor** at *Google Developer Students Club*, Oujda
Teaching basic web technologies.