Reda Alalach
Backend Developer Intern (Express.js / Cloud)

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BACKEND DEVELOPER PROFILE

- Backend-focused developer building secure **REST APIs** with **Node.js**/**Express** and database-backed business logic (**MongoDB**/**Mongoose**, SQL basics).
- Delivered production-ready features: **JWT auth**, middleware, global error handling, health checks, real-time events (**Socket.io**), and cloud deployments.
- Remote-ready: strong written communication, clear documentation, and consistent time commitment; comfortable working in **English**.
- Actively learning **Google Cloud Platform**, **Cloud Functions**, and **Firebase** (Firestore/Auth/Storage) to build scalable serverless backends for mobile apps.

BACKEND SKILLS & CLOUD

Backend: Node.js, Express.js, REST APIs, middleware, Socket.io, JWT authentication, error handling
Databases: MongoDB/Mongoose, SQL (basics), data modeling & CRUD
Cloud & Serverless: Google Cloud Platform (foundational), Cloud Functions (learning), Firebase (Firestore, Authentication, Cloud Storage) (foundational)
DevOps: Git, Linux, Docker, CI/CD (GitHub Actions, GitLab CI, Jenkins), Kubernetes (basics), env configuration, monitoring/health endpoints
Frontend (supporting): React.js, HTML/CSS, JavaScript (JSON, AJAX)
Soft Skills: problem solving, attention to detail, autonomy, teamwork

PROFESSIONAL EXPERIENCE

•**Technocolabs Softwares Inc.**   *Oct. 2025 – Present*
Full-Stack Developer Intern (MERN)   Remote
  – Supported a Node.js/Express backend by enforcing **JWT authentication** across routes, implementing a **global error-handling middleware**, and adding a **system health endpoint** (`/health`).
  – Integrated **real-time notifications** with Socket.io: instant updates when tasks are assigned or updated, plus toast notifications to improve UX and system feedback.
  – Built a reusable notifications UI (`NotificationPanel.jsx`) consuming `/api/notifications/:userId` with timestamps and "Mark as read".
  – Orchestrated production deployments (Render/Vercel/Railway/Netlify), managed environment variables, and documented a post-deploy checklist to improve reliability.

•**ALCHDEV BUSINESS**   *Jul. 2025 – Sep. 2025*
Web Developer Intern   On-site
  – Implemented new pages in a React.js application and integrated REST APIs via JavaScript; improved performance and cross-browser compatibility.

EDUCATION

•**B.Sc. in Computer Science — Year 3 (in progress)**   *2021 – 2026*
Faculty of Sciences Dhar El Mahraz (FSDM), Sidi Mohamed Ben Abdellah University   Fez

•**Baccalaureate in Mathematical Sciences (International Option)**   *2019 – 2021*
Al-Wahda High School   Taounate

PERSONAL PROJECTS (BACKEND-RELEVANT)

•**NotesBoard**
Collaborative MERN platform — GitHub

  – Built a secure **Node.js**/**Express REST API** with **JWT auth**, Helmet security headers, rate limiting, cron jobs, and e-mail notifications (Nodemailer).
  – Designed a **MongoDB**/**Mongoose** data model to manage users, notebooks, and analytics metrics; implemented CRUD endpoints and backend logic.
  – Implemented real-time collaboration (Yjs/Hocuspocus) and a modern React/Vite frontend with offline cache and notifications.

•**Online Portfolio**
Showcase website presenting my projects

  – Responsive portfolio website to present projects, skills, and links; optimized for mobile/desktop with clear navigation.

CERTIFICATIONS

- **Professional Certificate in Front-End Development — Meta** Coursera *2025*
- **Professional Certificate in Back-End Development — IBM** In progress *Ongoing*
- **LPIC-101** In progress *Ongoing*