

Bilend Mohammed Abdullah

Senior Software Engineer | Stamp 1G (Full Right to Work in Ireland — No Sponsorship Required)

bilendmohammed@gmail.com ♦ +353 85 2020 970 ♦ Galway, Ireland ♦ <https://bilendm.com>

SUMMARY

Senior Software Engineer with 7+ years building production web applications in TypeScript, Vue/React and Python. Led the front-end architecture of Iraq's national education management system, a ground-up rebuild managing records for 2M+ students and 600,000+ staff across 21,000+ schools. Chevening Scholar with an MSc in AI.

WORK EXPERIENCE

iMMAP Inc.

Senior Software Engineer

Aug 2025 – Aug 2026

Erbil, Iraq

National Education Management Information System (EMIS) for Iraq's Ministry of Education, delivered with UNESCO.

- Owned the front-end architecture end to end: page structure, routing with role-based access control, state management (Pinia), API integration and multilingual support (Vue-I18N), serving every user tier from schools and teachers to a three-level hierarchy of education directorates.
- Delivered a system 6–7x faster than the legacy platform, with data tables loading and filtering in milliseconds instead of seconds and near-instant page navigation.
- Built a reusable component library that became the team's shared UI layer, and drove its adoption across the team, improving consistency and accelerating delivery.
- Built a spreadsheet-style grade-entry module with debounced auto-save, live save-status feedback and error recovery; shaped its backend API design and contributed code to the ASP.NET Core / Entity Framework backend.
- Designed and built the API integration-testing framework from scratch. Wrote 100+ tests covering full HTTP-to-SQL Server round trips against a real containerised database.
- Mentored a junior developer through regular one-on-ones, established team guidelines for verifiable AI-assisted coding, and represented front-end engineering in bi-weekly feature-scoping sessions with UNESCO and the Ministry.

Technologies: Vue 3, Quasar, Pinia, Vue-I18N, C#, ASP.NET Core, Entity Framework, SQL Server, xUnit, Testcontainers

Asiacell Communications PJSC

AI Engineer

May 2025 – Aug 2025

Sulaymaniyah, Iraq

- Built a Text-to-SQL tool on a locally hosted LLM, grounding the model in the company's database schemas and sample data so non-technical staff could query live datasets in plain English via a Gradio UI.
- Engineered an automated reporting pipeline that queries database KPIs, prompts a local LLM to generate narrative insights, and compiles finished PowerPoint decks via python-pptx, cutting hours of manual reporting.
- Deployed a Whisper-based speech-analytics pipeline transcribing customer-care calls, turning contact-centre conversations into searchable data for CX and strategy teams.

Technologies: Python, PyTorch, LangChain, LangGraph, FastAPI, Gradio, Whisper, FFmpeg, python-pptx, SQL, MCP

Krusche & Company GmbH (K&C)

Outsourcing agency delivering projects for international clients

Mar 2022 – Aug 2023

Advanced Frontend Engineer

Client: Informa, PartneringOne platform

- Delivered features and fixes on a legacy React/Redux-Saga platform used to run international biopharma partnering events, working in a cross-functional Scrum team and shipping Jest tests with every change.
- Diagnosed and fixed a long-standing defect rooted in inconsistent time handling across the system, after it had stayed unresolved in the backlog for over a year.

Technologies: React, Redux-Saga, Material UI, Jest, Enzyme

Cloud Applications Developer

Client: Amt Viöl, Funding Scout platform

- Sole front-end engineer on Funding Scout, a federally funded platform helping Amt Viöl and 11 neighbouring municipalities find and apply for public funding; delivered by a four-person team in five months, on time and within budget.
- Built the entire front-end for non-technical municipal staff, including complex multi-step application forms, document uploads, routing and dashboards, reaching a 0.8s First Contentful Paint and 0ms Total Blocking Time.
- Advised municipal stakeholders in requirements meetings on technical feasibility and implementation options.

Technologies: Vue, Quasar, Pinia, Strapi, Express

Moonline Travel and Trade

Dec 2018 – Feb 2022

Software Engineer

Sulaymaniyah, Iraq

- Co-developed Booking Advisors, one of Iraq's first B2C online flight booking platforms, building its customer-facing web platform from scratch.
- Built and maintained the company's multilingual B2B and B2C websites, increasing user engagement by 27% and cutting load times by 34%.
- Led technical onboarding for the company's B2B API, guiding ~30 partner companies through integration and testing to certification.
- Co-built an internal operations platform integrated with SAP's API layer, connecting ticketing, accounting, finance and operations, and wrote SQL/SAP HANA queries powering Power BI reporting.

Technologies: Vue.js, React, JavaScript, TypeScript, WordPress, PHP, REST APIs, SAP HANA, SQL, Power BI

EDUCATION

University of Surrey - Chevening Scholar

2023 – 2025

MSc Artificial Intelligence

Guildford, UK

- Dissertation: An Analysis of the Current State of 4D Generation.

The American University of Iraq, Sulaimani

2016 – 2019

BSc Information Technology

Sulaymaniyah, Iraq

PROJECTS

Mawlawy

2026 – Present

AI-powered product discovery platform that turns Instagram vendor posts into a searchable marketplace.

- Designed and built the full system: a Next.js front-end, a FastAPI backend structured as a layered modular monolith, PostgreSQL with pgvector semantic search, and Redis/Celery background processing, deployed as containerised services on isolated Docker networks.
- Built an AI ingestion pipeline that turns unstructured Instagram posts into product listings: scheduled scrapes feed a dedicated AI worker (Gemma vision and text models) that extracts structured data, with confidence-based scoring into auto-approval, admin review or rejection, and AI providers switchable at runtime without a redeploy.
- Implemented HMAC-signed webhooks with replay protection, WebAuthn passkey and OTP login, rate limiting, Sentry across every service, and health checks that verify the scheduler is actively running.

Technologies: Next.js, TypeScript, Python, FastAPI, SQLAlchemy, Alembic, PostgreSQL, pgvector, Redis, Celery, Docker, Sentry, Cloudflare R2

CoreHR Fixer: Chrome extension that fixes usability flaws in CoreHR, the HR platform used by Irish institutions.

SKILLS

- **Programming Languages:** TypeScript, JavaScript, Python, SQL, C#, PHP, Java
- **Front-End:** React, Next.js, Vue, Pinia, Redux-Saga, Tailwind CSS, Shadcn, Quasar, Material UI, i18n / RTL
- **Back-End & Data:** FastAPI, Node.js, Express, ASP.NET Core / Entity Framework, REST APIs, JWT auth, PostgreSQL, pgvector, SQL Server, SQLAlchemy, Alembic, Redis, Celery
- **AI/ML:** PyTorch, LangChain, LangGraph, RAG, MCP, Whisper
- **Testing & Quality:** xUnit, Testcontainers, FluentAssertions, Jest, Enzyme, TDD, integration testing
- **DevOps & Operations:** Docker, CI/CD, Sentry, Git, Hetzner, Coolify, Vercel, Cloudflare R2
- **AI-Assisted Engineering:** Claude Code, OpenCode, Local/Open-Weight LLM Workflows
- **Languages:** English (Fluent), Kurdish (Native), Arabic (Intermediate)