

# Aissa Benfodda

Software Developer

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[Web Portfolio](#) | [LinkedIn](#) | [Github](#)

## Professional Summary

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Software Developer with 4+ years' experience in TypeScript, Node.js, and C++. Expert in building data pipelines, WebRTC systems, and Azure infrastructure while optimizing legacy full-stack architectures.

## Work Experience

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### Software Developer – *Oasis Path*

Sep 2025 – Present

- **Data Aggregation System:** Architected and developed a custom web-based platform for the automated collection and centralization of corporate data from multiple public sources.
- **Automated Web Scraping:** Engineered robust scraping engines to extract and normalize company information, ensuring high data accuracy and efficient processing pipelines.
- **Workflow Optimization:** Reduced manual research time by 80% by automating the data collection pipeline, significantly increasing the volume and speed of company outreach.

### Software Developer – *Visions of Independence*

Dec 2022 – Aug 2025 (Full-time)

- **Real-Time Communications:** Engineered a custom screen-sharing system using **WebRTC**, specifically optimized for low-bandwidth client support sessions.
- **Cloud Infrastructure:** Managed the deployment, scaling, and hardening of internal services on **Azure**, utilizing NGINX and custom firewall configurations.
- **Architecture & Design:** Led the architectural transition of legacy support tools into a modern, centralized system, improving internal team response times.

### SaaS Developer – *MyFloraboard*

May 2022 – Dec 2022 (Full-time), Dec 2022 – Jul 2023 (Part-time)

- **End-to-End SaaS Launch:** Led the full-cycle development and deployment of a botanical project management platform, transitioning from initial build to long-term feature evolution and maintenance.
- **AI-Driven Data Pipeline:** Engineered a data processing pipeline to clean and normalize large plant datasets, utilizing the **OpenAI API** for automated metadata enrichment.
- **Full-Stack Ownership:** Architected the entire technical stack, including frontend, backend, and infrastructure (Azure/NGINX), while implementing custom PDF export engines.

### Full Stack Web Developer – *Pillar Science*

Jan 2022 – Apr 2022 (Full-time)

- **Legacy Modernization:** Refactored complex legacy modules to improve code maintainability and system performance, reducing technical debt within a scientific data management platform.
- **Feature Engineering:** Developed and integrated new core features, working across the full stack to meet the rigorous data handling requirements of scientific researchers.
- **System Stability:** Architected and implemented automated test suites to ensure high reliability and prevent regressions during rapid feature delivery.
- **Agile Collaboration:** Contributed to a high-velocity team environment through active participation in sprint planning, architectural reviews, and peer code quality assessments.

## Freelance Software Developer

Mar 2020 – Jun 2020

- **Medical Tutoring Platform:** Developed a custom video-sharing system with hierarchical organization and interactive UI. Engineered a relational commenting system to facilitate structured academic discussions.
- **Study Tutoring Application:** Built a full-stack platform from scratch, including database architecture and Figma design. Integrated real-time collaboration tools for student-tutor engagement.

## Projects & Independent Study

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### Independent Game Developer – *Dragon Ball Z Online RPG (2D)*

Jan 2016 – Nov 2017

Crafted a real-time 2D Dragon Ball RPG by customizing a multiplayer engine with socket-based state synchronization, complex combat physics, and transformation logic for a dedicated alpha-tester community.

### Technical Mentor & Tutor

Sep 2019 – Aug 2024 (Occasional)

Simplified complex CS concepts for diverse audiences while guiding peers through debugging, code reviews, and architectural troubleshooting to foster clean code practices and optimized logic across projects.

## Education

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### Cégep Bois-de-Boulogne – Software Engineering Technology (DEC)

Sept 2019 – Aug 2021

Completed three terms of programming and database coursework before pivoting to remote, hands-on engineering projects in 2021, prioritizing industrial experience and professional full-stack software development.

## Skills

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**Programming Languages:** TypeScript, JavaScript (ES6+), **C++**, Java, PHP.

**Runtimes & Frameworks:** **Node.js**, Express, NestJS, Next.js, React, Vue.js, Svelte, tRPC.

**Cloud & Infrastructure:** **Azure**, AWS, Cloudflare (DNS/Workers), **Caddy**, NGINX, Docker, PM2.

**Databases & ORM:** PostgreSQL, MongoDB, **Drizzle ORM**, Prisma/TypeORM, Data Normalization.

**Enterprise Integrations:** **Microsoft Power Automate**, SharePoint API, Microsoft Graph API.

**Real-Time & Protocols:** **WebRTC**, WebSockets, HTTP/HTTPS, REST.

**Development Environment:** **WSL (Windows Subsystem for Linux)**, Linux/Unix, Git, GitHub, Postman, CI/CD.

**Frontend & Graphics:** Tailwind CSS, shadcn/ui, **Three.js**, Framer Motion, Figma.

**Languages:** **English** (Fluent), **French** (Fluent).