Mohamed Cherif Bah

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SUMMARY

Software Engineering student at Carleton University and founder of Docvera — a live, revenue-generating B2B SaaS platform used by Canadian immigration consultants. Hands-on internship experience building and debugging production systems across backend, infrastructure, and full-stack environments. Strong foundations in data structures, algorithms, OOP, and distributed systems. Fast learner, collaborative, and passionate about building things that work at scale. Bilingual in English and French. Available May 2026.

EDUCATION

B.Eng. Software Engineering — *Carleton University, Ottawa ON* Sep 2023 – Jun 2027

- Relevant coursework: Data Structures & Algorithms, Object-Oriented Software Development, Operating Systems, Data Management, Discrete Structures, Digital Systems
- Diploma in Computer Programming & Mobile Applications, CCNB — Data Structures & Algorithms, OOP, Java & Android Development, Cross-Platform Mobile Dev

WORK HISTORY

Software Engineering Intern — *AVRC, Carleton University* Sep 2025 – Present

- Maintained and debugged a Django/Python + PostgreSQL media management system on Linux/Nginx, resolving production metadata import failures, record-linking errors, and IIIF pipeline regressions.
- Designed and implemented CSV-to-database batch ingestion workflows, improving metadata accuracy and reliability across large archival film and image collections.
- Applied systematic logging and root-cause analysis to diagnose regressions in a live multi-user production environment, collaborating daily with the archival team.

Technician Analyst — *CGI* Feb 2022 – Feb 2025

- Configured and maintained 100+ virtual machines, VPNs, and enterprise IT systems across distributed infrastructure, achieving 99% uptime while serving 50+ clients daily.
- Managed Active Directory role-based access control and group policy enforcement at scale, strengthening security boundaries across a large enterprise user base.
- Resolved complex multi-system technical issues with a 95% first-call resolution rate; documented recurring failure patterns to reduce repeat incidents across the team.

Backend Developer Intern — *Société d'innovation et des solutions technologiques* May – Jun 2021

- Built RESTful APIs with Node.js, Express, and MySQL; integrated HTTP POST/GET calls into a cross-platform Flutter mobile app enabling real-time client-server data synchronization.
- Optimized Google AdMob configuration within the mobile app, improving ad placement logic and increasing monetization performance across active user sessions.

PROJECTS

Founder & Full-Stack Developer — *Docvera — docvera.app* 2025 – Present

- Architected and shipped a production multi-tenant B2B SaaS platform (Next.js, PostgreSQL/Neon, AWS S3, Stripe) serving licensed Canadian immigration consultants (RCICs) with case and document management.
- Implemented secure multi-tenant database schema with strict per-client data isolation, role-based access control, and a client-facing document portal — independently designed, built, and deployed on Vercel/AWS.
- Integrated async notification pipeline via Twilio WhatsApp and Resend for transactional email, and Clerk for authentication; handled full product lifecycle from system design to go-to-market execution.

SKILLS

Languages: Java, C, C++, Python, JavaScript, TypeScript, C#, SQL, HTML/CSS | English (fluent), French (fluent)

Frameworks/Tools: Next.js, React, Node.js, Express, Django, .NET, React Native, Git, Docker, Linux, PostgreSQL, MySQL, AWS S3, Stripe, Vercel, Clerk, Twilio

Concepts : Data Structures & Algorithms, OOP, REST APIs, Distributed Systems, Multi-Tenant Architecture, CI/CD, RBAC, Agile