

ABDILLAH NUR

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EXPERIENCE

Senior Software Developer

Jul 2025 – Dec 2025

Stealth BioTech Startup | Next.js, React, FastAPI, Python, PostgreSQL, Docker

Remote - Montreal, QC

- Led end-to-end development of a secure research platform enabling scientists to design experiments and analyze results via interactive Design of Experiments (DOE) and ML dashboards.
- Built a **FastAPI** backend with Pydantic validation and **PostgreSQL/SQLAlchemy** models supporting reproducible experiment runs and scientific metadata.
- Implemented **DOE** and statistical modeling pipelines using NumPy/SciPy to automate experimental design and parameter exploration.
- Developed a production **ML decision engine** using scikit-learn to predict optimal formulation parameters from historical experiment data.
- Designed the system for scalability and high throughput using **Docker** and **Redis** to support compute-heavy workloads.

Software Developer

Feb 2020 – Nov 2024

Canada Revenue Agency | Java, Spring, Angular, ASP.NET Core, Redis, PostgreSQL

Ottawa, ON

- Developed the Child and Family Benefits Calculator serving **20,000+ daily users**, enabling real-time eligibility assessments.
- Built RESTful Java (Spring) APIs backed by PostgreSQL, reducing response times by **20%**.
- Maintained the Canada Child Benefit Web platform in ASP.NET Core/C#, integrating real-time NCBS data and CRA-compliant authentication.
- Implemented OAuth 2.0 and JWT-based authentication to meet federal security and auditability requirements.
- Refactored legacy COBOL-integrated services, reducing cross-system latency by **25%**.
- Architected Redis caching to sustain **99.9% uptime** during tax-season traffic spikes.

Software Developer Intern

Jan 2019 – Apr 2019

Carleton University – Integrated Autonomous Vehicle Project

Ottawa, ON

- Built an Arduino-based beacon network for real-time vehicle localization, improving Bluetooth reliability by **25%**.

Software Test Intern

Sep 2017 – Apr 2018

Carleton University – SQUALL Lab

Ottawa, ON

- Authored automated test scripts and simulated multi-environment testing using Docker, improving testing accuracy by **35%**.

PROJECTS

globe Portio | Next.js, Golang, MongoDB, Docker, AWS CDK

- Built and scaled a no-code AI investment platform enabling **500+ users**, increasing first-session completion by **55%** and 30-day retention to **71%**.
- Developed Golang APIs handling **30,000+ daily AI requests** with sub-**50ms** latency.

globe DuaLink | Next.js, Supabase, Tailwind, Google Cloud

- Built a global prayer-sharing and daily inspiration platform supporting **1,000+ users** with private journals and community content.
- Integrated serverless workflows and AI-powered Tafsir generation using Google Cloud Functions with Supabase authentication.

TECHNICAL SKILLS

Languages: Java, C#, Python, JavaScript/TypeScript, SQL, Golang, C/C++

Frontend: React, Next.js, Angular, HTML/CSS, Tailwind CSS, Redux

Backend: Spring, ASP.NET Core, FastAPI, SQLAlchemy, Node.js, Express.js, Django, RESTful APIs, OAuth 2.0/JWT

Databases & Infrastructure: PostgreSQL, MongoDB, Redis, Docker, Kubernetes, AWS CDK, Supabase, Firebase, Linux

ML, Testing & DevOps: NumPy, SciPy, scikit-learn, Git, CI/CD, GitLab CI, Jenkins, Maven, JUnit

EDUCATION

Carleton University

Ottawa, ON

Bachelor of Engineering in Software Engineering