

ABDILLAHI NUR

 abdillahi.mnur@gmail.com

 abdillahi-nur

 abdillahinur.me

EXPERIENCE

Senior Software Developer	Jul 2025 – Dec 2025
<i>Stealth BioTech Startup Next.js, React, FastAPI, Python, PostgreSQL, Docker</i>	<i>Remote - Montreal, QC</i>
<ul style="list-style-type: none">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
<i>Canada Revenue Agency Java, Spring, Angular, ASP.NET Core, Redis, PostgreSQL</i>	<i>Ottawa, ON</i>
<ul style="list-style-type: none">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
<i>Carleton University – Integrated Autonomous Vehicle Project</i>	<i>Ottawa, ON</i>
<ul style="list-style-type: none">Built an Arduino-based beacon network for real-time vehicle localization, improving Bluetooth reliability by 25%.	
Software Test Intern	Sep 2017 – Apr 2018
<i>Carleton University – SQUALL Lab</i>	<i>Ottawa, ON</i>
<ul style="list-style-type: none">Authored automated test scripts and simulated multi-environment testing using Docker, improving testing accuracy by 35%.	

PROJECTS

 Portio <i>Next.js, Golang, MongoDB, Docker, AWS CDK</i>	
<ul style="list-style-type: none">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.	
 DuaLink <i>Next.js, Supabase, Tailwind, Google Cloud</i>	
<ul style="list-style-type: none">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
<i>Bachelor of Engineering in Software Engineering</i>	