

# MUNIR MOHAMMED

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Portfolio: [munirmohammed.vercel.app](https://munirmohammed.vercel.app)

## PROFESSIONAL SUMMARY

Backend Developer with 4+ years of experience crafting robust solutions, specializing in Artificial Intelligence functionalities. Successfully implemented AI-driven predictive stock analysis in a comprehensive ERP system, optimizing inventory management using Javascript and Python. Contributed to a biomedical AI platform, showcasing versatility across healthcare and enterprise domains with backend development and AI integration.

## SKILLS

- Python
- Microservices
- PyTorch
- ERP
- Team Player
- Inventory
- Node.js
- Docker
- Machine Learning
- Material UI
- Communication
- React
- Express.js
- Tensorflow
- E-Commerce
- Software Development
- Problem Solving

## EXPERIENCE

Back-End Engineer October 2024 - Current  
Playstream Interactive

Remytel

- Architected and developed Remytel, a comprehensive fintech platform enabling global airtime top-ups and remittances, serving international customers with seamless cross-border payment solutions
- Built a robust microservices architecture using TypeScript/Node.js with Bun runtime, Express.js backend, and React Native mobile application, supporting real-time transaction processing and multi-currency operations.
- Implemented advanced payment infrastructure integrating Stripe for secure payment processing, Twilio for SMS/WhatsApp communications, and DtOne API for international airtime distribution across 200+ countries.

- Designed sophisticated user management system with multi-factor authentication, OTP verification, session management, and comprehensive activity logging, ensuring enterprise-grade security and compliance.
- Developed intelligent referral and rewards system with dynamic campaign management, automated reward distribution, and advanced analytics tracking, increasing user acquisition by implementing gamification strategies.
- Engineered real-time notification system supporting push notifications, SMS, and email channels with personalized messaging, order status tracking, and automated customer communication workflows.
- Optimized database performance using PostgreSQL with Prisma ORM, implementing efficient data modeling for complex financial transactions, subscription management, and user relationship tracking.
- Integrated cutting-edge monitoring and observability tools including Sentry for error tracking, Redis for caching and session management, and comprehensive logging systems for transaction auditing and compliance.

Back-End Engineer  
Stone Age Technologies

February 2023 – Oct 2024

#### J-Search

- Developed J Search as a comprehensive and dynamic business management solution, seamlessly integrating the functionalities of an eCommerce platform with an ERP system.
- Named the innovative solution J Search, ensuring it offers a robust suite of features, including inventory management, order fulfillment, supplier interactions, and location-based inventory ranking rules. J Search optimized retail store operations and facilitated seamless product transfers.
- Streamlined supplier interactions and managed purchase orders to enhance operational efficiency. Positioned J Search as a versatile tool designed to optimize and streamline business operations.

- Established interconnected sales channels spanning Scandinavia and broader European regions. Integrated features such as promotions, gift cards, and real-time notifications into J Search.
- Positioned J Search as more than just a project—an adaptable, strategic solution designed to empower businesses in the ever-evolving landscape of eCommerce and enterprise resource planning.

## Ethio-Education

- Crafted an online education platform tailored to the Ethiopian context using Node.js and Express.js for the backend and React.js for the frontend.
- Developed a user-friendly interface, ensuring a seamless and intuitive experience for users. Emphasized customized learning paths to meet the unique educational needs of students and provided a diverse range of courses. Integrated a student management system to enhance engagement and personalization. Facilitated data-driven insights through analytics for adaptive learning journeys.
- The development of a responsive and intuitive learning environment, using node for the backend and React.js for the frontend, highlights the achievement of creating a seamless platform. EthioEducation's distinctive feature—customized learning paths—demonstrates a deliberate effort to offer a diverse array of courses, meticulously tailored to meet the unique educational needs of its users.

Software Developer

October 2022 - June 2023

Omic

## Biomedical Ai platform

- Developed a cutting-edge biomedical AI platform dedicated to reverse engineering complex diseases, leveraging Python, Fast api, and AI technologies to build the backend infrastructure. Designed and implemented machine learning algorithms that drive the platform's core functionalities.
- Utilized fast api to develop robust RESTful APIs, ensuring seamless communication between frontend and backend components. Integrated advanced machine learning libraries, such as TensorFlow and PyTorch, to analyze biomedical data, extract patterns, and contribute to a deeper understanding of diseases.
- Managed backend architecture using SQLAlchemy and Pandas to efficiently handle data processing, storage, and retrieval. Played a critical role in enabling AI-driven insights from biomedical datasets through backend engineering. This comprehensive approach integrated backend development with AI implementation, revolutionizing disease understanding and treatment.

## Intfind

- Created Intfind, a dynamic platform at the intersection of design and development education, offering concise, industry-relevant online courses using Python (Flask/FastAPI). Fostered collaboration to promote peer learning within a supportive community on the platform.

- Positioned Intfind as more than an educational tool by doubling as a job platform, connecting learners with valuable internship opportunities through this feature. Leveraged Python automation scripts and APIs to ensure regularly updated content, keeping courses aligned with industry trends on the platform.
- The outcome of the Intfind project is marked by its transformative impact on individuals navigating the fields of design and development. As learners engage with our concise and industry-aligned courses, the platform has successfully empowered them with practical skills and relevant knowledge, crucial for success in the rapidly evolving digital landscape.

Software Engineer  
RDX Delta

June 2020 - May 2023

## NoStock

- Presented No Stock, a dynamic ERP system crafted for seamless business operations using Node.js. Included modules covering supplier and customer management, delivery logistics, finance and advanced stock control.
- Went beyond conventional ERP by incorporating AI for predictive stock analysis. Optimized inventory levels by intelligently forecasting demand patterns within the system. Featured interactive dashboards in No Stock, allowing real-time tracking of financial metrics, delivery status and inventory levels.
- Enhanced traditional ERP functionality by integrating AI-driven predictive analytics — leveraging TensorFlow.js and lightweight ML models to forecast demand patterns and auto-optimize stock levels. Built real-time interactive dashboards (React + Chart.js) for live monitoring of financial KPIs, shipment status, and warehouse inventory.
- Created comprehensive documentation detailing system designs, user guides, and technical specifications.
- Investigated new technologies and tools to stay current with industry trends and best practices.
- Participated in Agile development processes including daily stand-ups, sprint planning and retrospectives.
- Utilized version control systems such as Git or SVN for efficient collaboration and project management.

## HobbyzHub

- Developed Hobbyzhub, a dynamic platform using Node.js, with services including Helprequest, Post, Notification and more. Leveraged AI to deliver personalized experiences, implementing tailored notifications through machine learning algorithms.
- Built the platform using Node.js for the backend, ensuring seamless microservices deployment with Docker. Integrated cutting-edge AI components using *Node.js*-based machine learning libraries into Hobbyzhub. The outcome of the Hobbyzhub project is a thriving platform that successfully brings together hobby enthusiasts through a seamless and feature-rich experience. With Node.js at its core, the platform offers a range of services, from Helprequest and Post to Notification and Account Management.

- The integration of AI has significantly enhanced user engagement, particularly through personalized notifications generated by machine learning algorithms. Users now enjoy a more tailored and immersive experience, fostering a sense of community within the platform.

## EDUCATION

Computer Science	08/2019
Addis Ababa University	
Duration: 4 years	