

BIRUK BOGALE

FULL-STACK DEVELOPER

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SUMMARY

Full-Stack Developer skilled with **React.js, Next.js, Node.js, Express.js, MySQL**, with hands-on experience designing, developing, and deploying **complete, production-grade web applications** from the ground up.

I've independently handled **frontend architecture, backend systems, database design, and deployment** for multiple full-stack projects — including a scalable business digitization platform for BIS Consulting PLC hosted on **Ubuntu VPS**.

Through numerous self-initiated and personal projects, I've strengthened my abilities in problem-solving, backend architecture, and full-cycle application development.

Passionate about crafting modern, user-focused, and high-performance digital solutions that deliver real value.

TECHNICAL SKILLS

Front-End Skills

- **Frameworks & Libraries:** React.js, Next.js
- **UI & Styling:** Tailwind CSS, Bootstrap, ShadCN UI, Framer Motion
- **State Management:** React Query, Context API, Zustand
- **Form Handling:** React Hook Form, Zod
- **Charts & Visualization:** Chart.js, Recharts
- **API Integration:** Axios, Fetch API
- **Routing & Navigation:** React Router, Next.js App Router

Back-End Skills

- **Languages & Frameworks:** Node.js, Express.js
- **API Design:** RESTful API development, middleware handling, route controllers
- **Authentication & Authorization:** JWT, Cookies, Role-Based Access Control (RBAC), Granular Permissions, Better-Auth
- **Architecture & Structure:** MVC pattern, layered architecture
- **File Handling:** Multer (file uploads)
- **Security:** CORS, HTTPS, input validation, environment variable management ... etc ...
- **Microservices:** Basic experience with service separation (e.g., auth-service, order-service, product-service)

Database & Data Management

- **SQL Databases:** MySQL
- **ORM / Query Builders:** Prisma ORM, Raw SQL Queries
- **Data Aggregation:** Views, Joins, Subqueries, Window Functions (e.g., for percentiles, medians)
- **Database Optimization:** Indexing, Query optimization, Schema design
- **NoSQL (familiarity):** MongoDB

Other / DevOps / Tools

- **Version Control:** Git, GitHub (Git Flow)
- **Deployment & Hosting:** Nginx, VPS (Ubuntu/Linux), PM2
- **Payment Integration:** Stripe API
- **Email & Notifications:** Nodemailer, custom email templates
- **File Handling:** Multer (file uploads)
- **Debugging & Monitoring:** Postman, console logging, error middleware

SOFT SKILLS

- Strong self-learner and problem solver
- Detail-oriented and consistent in coding standards
- Effective at structuring scalable and maintainable projects
- Highly motivated, adaptable, and focused on building impactful products

HIGHLIGHTED PROJECTS

BIS Consulting PLC – Business Process Digitization Platform

www.bisconsulting.et

- Designed, built, and deployed a complete company website and internal management tool on an **Ubuntu VPS server** using **Nginx, Node.js, Next.js, and MySQL**.
- Independently handled the **frontend design, backend development, database architecture, and deployment** processes end-to-end.
- The internal system replaced Excel-based workflows, introducing **role-based dashboards, granular permission** and **secure authentication**.
- Structured the platform to **scale into a fully digitized company-wide system**, enabling process efficiency and long-term digital transformation.
- Deployed and maintained the live environment on VPS with **SSL (HTTPS)** and **PM2** process management.

Multi-Vendor E-Commerce Platform (Personal Project)

- Built a **scalable multi-vendor e-commerce system** using **Node.js, Next.js, and MongoDB**, organized in a **microservice architecture** with **Nx monorepo** for structured modularity.
- Implemented separate services for authentication, product management, orders, and payments, communicating through REST APIs.
- Integrated **Stripe** for secure payments.
- Designed the backend for horizontal scalability and efficient service isolation, following modern system design principles.

OTHER PROJECTS LIST

- **Compensation Web App (for BIS Consulting PLC)**
- **Garage Management Web Application (Personal Project)**
- **Evangadi Forum Web Application (Personal Project)**
- **Job Portal Web App (Personal Project)**

EDUCATION

Full Stack Application Development

- Evangadi Networks  Maryland, United States