Khurram Ali

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TECHNICAL SKILLS

Front-End	JavaScript, TypeScript, React, HTML5, CSS3, Redux, Tailwind, jQuery, Next.js
Back-End	Node.js, Nest.js, Express, PostgreSQL, MongoDB, MySQL, RESTful API, Axios, Prisma, Mongoose, TypeORM, Java
Testing	Jest, Mocha, Chai, AWS: EC2, Cypress, Test Driven Development (TDD), Supertest
Tools	Git, npm/pnpm, Webpack, Babel, Agile Methodology, Jira, Supabase, Figma, Postman

EDUCATION

Hack Reactor | Advanced Software Engineering Certificate — September 2023

Lehman College, Bronx, NY | M.S. Mathematics — **GPA: 3.75** | May 2023

Brooklyn College, Brooklyn, NY | B.S. Mathematics — **GPA: 3.58** | December 2020

PROJECTS

Personal Blog | **Repo:** *github.com/destocot/khrm-blog-v2* | **Demo:** *khrmblog.vercel.app*
Tech Stack: Next.js, MongoDB, Cloudinary, Shadcn/ui, Tailwind, Framer-Motion
Full-stack blog with static site generation, full-text search, Cloudinary image handling, and category tagging.
- Optimized blog search functionality using MongoDB text search, post tags, and dynamic metadata generation, enabling intuitive content discovery for users.
- Implemented secure authentication with next-auth for administrative control over content editing.
- Extended blog functionality by incorporating TipTap editor, enabling markdown-based content for richer formatting.

My Anime Store | **Repo:** *github.com/destocot/myanimestore* | **Demo:** *myanimestore.vercel.app*
Full-stack e-commerce platform with Stripe payments, OpenAI-powered semantic search, and intuitive UI.
- Engineered user-centric anime profiles, integrating Stripe for seamless checkout and transactions.
- Improved search efficiency for over 16,000 anime titles by implementing Semantic Search & integrating OpenAI for searches.
- Utilized Google Lighthouse to measure site performance, resulting in increased best practices and SEO scores to 100.

Stick-It! Notes | **Repo:** *github.com/destocot/stick-it* | **Demo:** *stick-it.vercel.app*
Full-stack notes app with expressive note creation features, mirroring Google Keep.
- Implemented Supabase's authentication API and row-level security measures to guarantee 100% page protection, maintain data privacy, and regulate user access across the application.
- Utilized Tailwind media queries to create a responsive design for device widths up to 480px.

Elier API | **Repo:** *github.com/destocot/Elier*
Scalable back-end API for handling 100,000+ products and metadata, supporting full CRUD operations.
- Developed an efficient ETL process using PostgreSQL's COPY function, seeding millions of CSV rows, and optimized queries with Redis caching and indexing, achieving sub-20 ms data retrieval.
- Scaled the system to handle 1000 rps utilizing AWS infrastructure (two t2.micro EC2 instances and an Application Load Balancer).
- Conducted rigorous load testing (loader.io, Artillery.io) demonstrating a dramatic reduction in average response time from 8832ms to 3ms.

PROFESSIONAL EXPERIENCE

Center for School-College Collaboratives - Lehman College | Teaching Assistant — July 2019 - July 2023
- Enhanced math content specialty test preparation for teacher candidates.
- Delivered personalized guidance and support for the NYC Men Teach program.
- Conducted daily recitation sessions, provided individualized tutoring, and proactively collaborated with professors to foster a supportive learning environment and improve student understanding and academic achievement.