MUHAMMAD DAWOOD HAMAYUN

FULL STACK PRODUCT ENGINEER

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Product Developer blending full-stack development expertise with user-centered design principles to create impactful, scalable solutions. Adept at transforming research insights into actionable features, coordinating cross-functional teams, and managing project lifecycles to deliver optimized platforms that enhance user experience and drive business outcomes.

CORE SKILLS

- **Product Development:** Full-Stack Development, Scalable Architecture, CI/CD Pipelines
- **UX/UI Design:** User Research, Prototyping, Wireframing, Interaction Design, User Flows, User Journey.
- **Tech Stack:** React, Next, Node.js, NestJs, MongoDB, MySQL, PostgreSQL, Firebase, Python, Flask, AWS, Figma, WordPress, Contentful, Strapi, ShadCN.
- **Optimization:** Performance Tuning, Automation, A/B Testing, Caching, Database indexing.

CAREER HIGHLIGHTS

- **Led a Cross-Functional Team at a Young Age:** Successfully managed developers and designers to build Navigrated through agile methodology, a comprehensive mentorship platform integrating real-time video calls, AI tools, and milestone tracking.
- **Transformed Business Ideas into Impactful Digital Solutions:** Played a key role in driving a 35% increase in business proposal acceptance rates through user-centered design and strategic execution.
- **Contributed to $1M+ in revenue impact:** By shipping high-leverage features and improving key product flows across the platform.

PROFESSIONAL EXPERIENCE

Full Stack Developer, GrowhtRune   **September 2025 - Present**

- Owned and shipped the platform's largest core module, driving end-to-end delivery across frontend, backend, and data workflows.
- Implemented caching + performance optimizations across critical endpoints, improving overall app responsiveness by ~40%.
- Improved key user flows and interaction UX, reducing friction and cutting user effort by ~50% across high-traffic experiences.
- Built and delivered agentic AI experiences, including avatar customization and dynamic persona-style interactions for a more engaging UX.
- Collaborated across product + engineering to ship revenue-impacting features, contributing to $1M+ in generated revenue.
- Strengthened reliability by improving edge-case handling and production readiness across major workflows (validation, retries, and failure paths).

Product Engineer (Full-Stack), Aithur   **February 2025 - September 2025**

- Built and shipped the RAG system for Ezyiah, improving answer accuracy to ~85% while ensuring responses stayed grounded in the latest available information.
- Automated tax-data updates by delivering a scheduled pipeline/script that fetched current tax rules, removing manual maintenance and keeping data continuously fresh.
- Led an end-to-end product delivery and contributed to ~20% of annual revenue.

Full-Stack Developer, Navigrated - Unimatters   **March 2024 - December 2024**

- Led the design and development of Navigrated, a mentorship platform with real-time video calls, an AI-powered CV clinic, and milestone-based challenges, increasing user engagement by 20%.
- Directed a cross-functional team to implement CI/CD pipelines and improve code quality.
- Developed a real-time dashboard to monitor platform metrics, driving data-driven decision-making for performancy improvements.

Full-Stack Developer, OlaphaseSDN   **May 2020 - February 2024**

- Built reusable plugins and automation tools that boosted operational efficiency across multiple systems.
- Established unit, integration, and end-to-end testing frameworks, ensuring high-quality releases through automated CI/CD pipelines.
- Improved platform speed by 25% through optimized database queries and indexing, increasing user engagement and satisfaction.
- Conducted usability testing and competitive analysis, ensuring product scalability and alignment with user expectations.
- Improved responsive design for desktop and mobile platforms, ensuring usability and long-term adaptability.

PROJECTS

VocalSplit.org - A vocal + music separator AI tool

- Built a full-stack tool to extract vocals and instruments from both audio and video files with 95%+ accuracy.
- Used Python (FastAPI), Demucs model for AI-based separation, and applied parallel processing for faster extraction.
- Developed frontend with Next.js (SSR) and implemented SEO optimization for better reach.
- Handled deployment on Vercel (frontend) and Render (backend), ensuring smooth performance.
- Designed responsive, scalable UI/UX in Figma, following a global styling system for consistency.

DesignIQ - Insights Tool for UX Designers

- Built a tool to analyze qualitative interviews and quantitative surveys, generating personas, behavioral traits, journey maps, and visual dashboards.
- Applied sentiment analysis, clustering, and behavior modeling to extract user emotions, preferences, and patterns.
- Designed interactive dashboards with real-time charts to visualize user data, trends, and decision insights.
- Developed a live font and color recommendation system with interactive mockup previews for consistent, optimized UI design.
- Automated color palette generation, behavior analysis, and reporting to streamline design workflows and support data-driven decisions.

EDUCATION

Bachelor's Degree in Data Sciences
Comsats University Islamabad

ADDITIONAL INFORMATION

- **Languages:** English, Urdu, Punjabi
- **Certifications:** UX Design Foundation (Uxcel), Advanced Machine Learning (Dice Analytics)