

# Abdul Salam Wahab *Full Stack Software Engineer*



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## PROFILE

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Full Stack Software Engineer with 4+ years of experience specializing in TypeScript, Next.js, and the MERN stack. Skilled in building scalable web applications, SaaS platforms, and AI-powered applications using modern LLM tools and APIs. Experienced in developing high-performance backends with Node.js, Express, and PostgreSQL, with strong focus on clean architecture, type safety, and system optimization. Proven ability to deliver production-grade solutions in enterprise environments.

## PROFESSIONAL EXPERIENCE

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03/2023 – 10/2025  
Houston, Texas

### **Full Stack Software Engineer | MERN (Remote), HAR.com**

- Spearheaded Full-Stack development using the MERN stack (Next.js & Node.js) for HAR.com, delivering scalable features for millions of users and driving a 15% increase in user engagement.
- Architected type-safe REST APIs with TypeScript & Zod, reducing production runtime errors by 40%.
- Engineered backend microservices using Express & PostgreSQL, optimizing queries to reduce response times by 200ms.
- Optimized data architecture by designing efficient MongoDB & PostgreSQL schemas, improving data retrieval speed by 30% for complex property-related queries.
- Integrated Mapbox & MongoDB for geospatial search, cutting map rendering time by 30%.

03/2021 – 02/2023  
Karachi, Pakistan

### **Associate Software Engineer, Pakistan Navy**

- Digitized manual workflows by engineering web-based tracking tools, reducing administrative processing time by 40%.
- Modernized legacy interfaces using ES6+, increasing data entry accuracy and speed by 30% for mission-critical operations.
- Maintained 100+ terminals with automated monitoring scripts, achieving 99.9% uptime in a high-security environment.
- Developed secure frontend architectures with Role Based Access Control (RBAC), ensuring zero security breaches and strict data protocol adherence.

## EDUCATION

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10/2025 – Present  
Siegen, Germany

**Master of Science (M.Sc.) in Computer Science, University of Siegen**

03/2021 – 03/2025  
Karachi, Pakistan

**Bachelor of Science (B.Sc.) in Computer Science, Virtual University of Pakistan**

## Skills

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### Frontend Engineering

- **Languages & Frameworks:** JavaScript (ES6+), TypeScript, React, Next.js, HTML5, CSS3, Zod
- **State & Data:** Redux Toolkit, React Query, Zustand, React Hook Form.
- **UI & UX:** Tailwind CSS, Material UI (MUI), ShadCN UI, Framer Motion, Mapbox.

### Testing & Emerging Tech

- **Quality Assurance:** Jest, Cypress (E2E), React Testing Library, Unit Testing, TDD.
- **AI & Data:** LLM Integration (AI-Powered Solutions), Vector Embeddings.

### Backend & Infrastructure

- **Server-side:** Node.js, Express.js, Microservices Architecture, JWT, Clerk Auth, Inngest.
- **Databases & ORM:** PostgreSQL, MySQL, MongoDB, Prisma, Neon DB, Convex, Firebase.
- **DevOps & Cloud:** Docker, AWS, CI/CD Pipelines (GitHub Actions/Vercel), REST APIs, SaaS Architecture, ImageKit.

### Methodology & Tools

- **Workflow:** Agile (Scrum/Kanban), Git/GitHub, Jira, Postman, API Documentation (Swagger/OpenAPI).

## LANGUAGES

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### German

(B1 - Intermediate)

### English

(C1 - Professional)

### Urdu

(Native)

## PROJECTS

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### AI Note Taker SaaS, *Next.js, TypeScript, LangChain, Gemini API, Convex, Clerk, Paddle*

- Built AI SaaS for PDF summarization & vector search using LLM pipelines
- Implemented auth + subscription billing (Paddle) with real-time backend (Convex)
- Designed scalable full-stack architecture with optimized API workflows

[Live Demo] [↗](#) | [GitHub] [↗](#)

### AI Multi-Vendor E-Commerce, *Next.js, Tailwind, Clerk, Neon DB, Inngest, ImageKit, Paddle, Gemini API*

- Developed multi-vendor platform with role-based dashboards & AI recommendations
- Integrated async workflows (Inngest) and optimized media handling (ImageKit)
- Built scalable backend with event-driven architecture & secure payments

[Live Demo] [↗](#) | [GitHub] [↗](#)

### Modern Admin Dashboard, *Next.js, React, Tailwind, ShadCN UI, Zod, React Hook Form, Recharts*

- Built an analytics dashboard with interactive charts and KPI tracking using Recharts.
- Implemented schema validation with Zod and built reusable UI components for scalable workflows.

[Live Demo] [↗](#) | [GitHub] [↗](#)

### Community Discussion Platform, *PHP, MySQL, Bootstrap, AJAX*

- Developed forum with posts, answers, and nested discussions
- Implemented authentication and dynamic updates using AJAX
- Implemented optimized MySQL queries with indexing and normalization to ensure efficient data handling and scalability

[GitHub] [↗](#)