Bilal Waheed

Software Engineer

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Software engineer with 2+ years of professional experience in developing full-stack web3 applications using Node.js, Svelte and Next.js. Self-motivated and passionate about leveraging cutting-edge technologies to solve complex problems. Seeking to work on novel and impactful applications as a full-stack developer.

AREAS OF EXPERTISE

Programming Languages: JavaScript, TypeScript, Python
Backend: Node.js, Express.js, Nest.js, MySQL, MongoDB, TypeORM, Prisma
Frontend: HTML, CSS, Svelte, Next.js, React, Tailwind CSS
Tools & Platforms: AWS, Git, Docker, Vercel, Firebase, Webpack, Jest, Stacks blockchain, Stacks.js

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PROFESSIONAL EXPERIENCE

SWE – II, Tintash *(Full-stack Web3 Developer)*   **April 2024 - Present**

- Spearheaded the development of a magic link authentication system for a full-stack web3 application, enabling onboarding through email-based magic links. Utilized JWTs for building the magic links due to their enhanced security.
- Took charge of development of a mailer system to programmatically send emails to customers and stakeholders. Effectively used AWS SQS with Lambda to decouple the module from the rest of the server, enhancing its efficiency.
- Developed a fully responsive Next.js website with an integrated CMS for dynamic content management. Integrated a Node.js proxy server and deployed the complete system on AWS.

Software Engineer, Tintash *(Full-stack Web3 Developer)*   **Jul 2022 - March 2024**

- Designed a relational database schema to replace an outdated decentralized storage system for a web3 domain registration application. Successfully developed and integrated backend APIs with the schema in Node.js using TypeORM. Refactored the frontend code and optimized the UI, reducing failed domain registrations by over 15%.
- Collaborated with the team to rewrite a Node.js server using TypeScript and TypeORM to optimize the API performance and response times. Integrated Signoz (APM) for further performance monitoring and optimization.
- Developed a fully functional, mobile-responsive frontend for a full-stack web3 domain registration application using Svelte and Tailwind CSS.

Frontend Developer, AlphaSquad   **Jul 2021 - Sep 2021**

- Developed a JavaScript-based Figma plugin to convert Figma design files into HTML and Tailwind CSS code.
- Developed a recursive algorithm for parsing Figma files and generating accurate HTML markup with 100% accuracy.

SELECTED PROJECTS

Lounge

A platform where users can register, create lobbies and play the traditional four-player card game of court piece online with friends. Includes a built-in group chat. Developed using *Node.js* and *MongoDB* for server and *Next.js* for frontend. *Socket.io* powers real-time game updates and text messages. Server is deployed on AWS. View the project [here](#).

Wordcod

An application for communication developed using *Next.js*, *Tailwind CSS*, *ShadCN*. Allows users to create and join text, audio and video channels and communicate with other users. Next.js is used for API endpoints as well with *MySQL* and *Prisma*. Clerk is used for authentication and Livekit for audio and video channels. View the project [here](#).

COURSES & CERTIFICATIONS

- AWS Certified Cloud Practitioner (CCP) - Nov 2022
- Databases for Node.js Developers (LinkedIn)
- Blockchain: Foundation and Use Cases (Consensys Academy)
- Deep Learning Specialization (deeplearning.ai)
- McKinsey Forward Program - 2023

EDUCATION

B.E. Software Engineering   **2018 - 2022**
SEECS, NUST - Islamabad Graduated with a **3.73** CGPA.