Bilal Waheed

Full-Stack Engineer

Software engineer with two years of experience in full-stack web development in the blockchain domain. Proficient in frontend as well as backend technologies including React, Next.js and Node.js. Demonstrated success in writing robust APIs and building dynamic frontends. A self-motivated individual passionate about solving problems using the latest technologies. Seeking to work on novel and impactful applications as a full-stack engineer.

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Professional Experience

Tintash, Pakistan July 2022 - Present

Software Engineer (Full-stack / Blockchain)

- Contributed to the development of two full-stack products on the Stacks blockchain, implementing new features, conducting testing, and thoroughly documenting the code. Additionally, collaborated with the team to enhance the maintainability and extensibility of a Node server, originally built with JavaScript and MySQL, through a rewrite in Typescript using TypeORM.
- Innovatively integrated Voucherify to generate redeem codes for a promotional campaign, seamlessly incorporating them into the existing system. Successfully developed and tested a user-centric website flow, ensuring a smooth experience for redeeming codes.
- Developed robust unit and integration test cases for three codebases with Jest, achieving a 95% statement coverage and reducing production bugs.
- Automated database analysis by developing scripts that dynamically generate graphs in Google Sheets, providing the client with concise summaries via automated emails when system transaction thresholds were exceeded. This initiative streamlined data visualization.
- Took charge of identifying and resolving production bugs in a Node.js and React project through root cause analysis. Rigorously tested and deployed fixes to production, with documentation to enhance project transparency.

AlphaSquad, Islamabad July 2021 - September 2021

Frontend Developer (Intern)

- Engineered a Figma plugin capable of converting designs to HTML + Tailwind CSS code, according to Stakeholders requirements.
- Developed a recursive algorithm to read figma files and output HTML tags.
- Translated a Figma design to a frontend website using React and Tailwind.

Selected Projects

The 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.

Wordcod (Discord clone)

A discord clone developed using Next.js, Tailwind CSS, Shadcn and Prisma. Allows users to create and join text, audio and video channels and communicate with other users.

Education

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

Skills

Programming Languages

JavaScript, TypeScript, Python, HTML, CSS, PHP

Libraries & Frameworks

React.js, Next.js, Svelte, TailwindCSS, Framer-motion, ShadCN, Node.js, Express.js, Jest, TypeORM, Prisma, Stacks.js, Tensorflow, Keras

Tools & Platforms

MongoDB, MySQL, AWS, Git, Vercel, Firebase, Docker, Webpack, Figma

Courses & Certifications

AWS Certified Cloud Practitioner (CCP) - Nov 2022

Blockchain: Foundation and Use Cases (Consensys Academy)

Deep Learning Specialization (deeplearning.ai)

McKinsey Forward Program - 2023

Foundations of Project Management (Google, Coursera)

Interests

Chess, Sports, Reading