KARTIKEY SINGH

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EXPERIENCE

Tracelink   **July 2024 – Jan 2025**
Software Engineer - 1 | *JavaScript, Lit, Java*   *Pune, India*

– Assisted in the development of a no-code, metadata-driven platform based on MVVM architecture, reducing page creation time from multiple days to 5 minutes, significantly improving productivity.
– Developed reusable Lit-based UI components with 10+ customisable properties using Shoelace and JavaScript for seamless platform integration.
– Delivered MINT, a supply chain integration solution, by developing and testing JSLT maps to process and streamline 8+ transactions.
– Achieved 88% unit test coverage with Vitest by implementing tests for user events and automated UI testing with Java and Playwright.

Tracelink   **June 2023 – July 2023**
Software Engineer Intern | *JavaScript, Python, Node.js*   *Pune, India*

– Streamlined localisation with a CLI tool, reducing task time from 5 minutes to 2 minutes (60% efficiency gain), enabling seamless global localisation.
– Integrated React components into Storybook, improving design consistency by 30%, also creating an interactive playground for component development and testing.

Niyo   **March 2022 – May 2022**
Web Development Intern | *Angular, React.js*   *Bangalore, India*

– Redesigned an enterprise-grade Angular app, translating Figma designs into functional components and improving user flows by 50%.
– Developed and integrated 10+ Angular components, landing pages, and React micro-frontends with Webpack5 module federation.

TECHNICAL SKILLS

Languages: HTML5/CSS3, JavaScript(ES6), C++, Java, Python, SQL
Frameworks/Libraries: React.js, Node.js, Angular, Lit, REST, Sass/Scss
Tools: Git, MongoDB, Webpack5, Vitest, Playwright, Postman

PROJECTS

DigiPramaan - Blockchain based Certificate Management | **MERN, Solidity**   *Link*

– Led the development of a blockchain-based certificate system using Ethereum (Sepolia TestNet), Node.js, MongoDB, and AWS S3, designed architecture and guided the team of 4 members.
– Facilitated organisations to issue customisable certificates with live previews and blockchain-secured verification, reducing costs by 50% through bulk certificate generation.

Zion Website - College Fest | **React.js, Node.js**   *Link*

– Implemented a React web app for the annual tech fest, managing registration and payment for 400+ students, with a Node.js backend storing data in Google Sheets.

EDUCATION

Dr. D.Y. Patil Institute of Technology, Pimpri   **August 2020 - June 2024**
B.E. in Computer Engineering (CGPA of 8.51)   *Pune, India*

– **Coursework**: Data Structures, Algorithms, OOP, DBMS, OS, Computer Networks

ACHIEVEMENTS

– Published a conference paper on Blockchain Based Certificate Management System in ***2024 8th International Conference on Computing Communication Control and Automation*** - *Paper Link*
– Taught web development to *60+* students as Web Development Lead at GDSC (Google Developer Students Club)