Vasu Khandelwal

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EDUCATION

Birla Institute of Technology & Science, Pilani   August/2019 – August/2023
B.E. (Hons.), Civil   *Pilani, Rajasthan*
- **Relevant Coursework:** Data Structures and Algorithms, Object-oriented Programming,Discrete Mathematics

TECHNICAL SKILLS

Languages: TypeScript, C++, Javascript, Java, C
FrontEnd Technologies: ReactJS, NextJS, Redux, Recoil, Jest,HTML5, SCSS/SASS, MaterialUI, TailwindCSS, NextUI
Backend Technologies: NodeJS, ExpressJS, JWT, PrismaORM, Cloudfare Workers, NestJS, Sessions/Cookies, Redis
Database Languages: PostgreSQL, MongoDB, Oracle, SQLite,
Developer Tools: AWS, Docker, Jira, Postman, Figma, Git, Bitbucket, GCP, Confluence

EXPERIENCE

HDFC ERGO General Insurance Company Limited   June/2023 – Present
Software Developer - Contributed to Digital Bancassurance platform & proposal Form.   *Bengaluru*
- Designed and implemented **pixel-perfect** motor insurance journeys for 2/4-wheel vehicles, integrating **E-Kyc** Flow technology. The **dynamic flows**, tailored to user input, catered to a massive user base of **1 million+** daily users
- Implemented analytics & monitoring features using **batch** & **streaming** pipelines, processing **100GB+** daily data. Provided actionable insights, improving product performance by **40%** & reducing latency by **60%** across partners
- Implemented secure **authentication** and **authorization** system, reducing user onboarding time by **40%**. Integrated role-based access control, handling **20,000+** daily logins with **99.9%** uptime across **10+** partners.
- Spearheaded a **5-member** team to develop **dynamic Proposal Form** for 4 types of health insurance, leveraged **NextJS** to build fast Backend APIs. Validated & generated PDFs for **100+** fields, managing **10,000+** daily visits
- Containerized apps with **Docker** for consistent environments. Used **AWS S3** & **CloudFront CDN**, cutting page load times by **30%** & Implemented **TDD** with Jest, boosting code reliability by **25%** and reducing bugs by **40%**
- Optimized frontend performance with **lazy loading**, **code splitting**, and **Redux** state management. Achieved **40%** faster initial load time and **25%** reduced bundle size, improving UX for **500,000+** monthly users.

Blue Yonder   July/2022 – January/2023
Product Development Intern   *Bengaluru*
- Developed **RESTful APIs** using **Node.js** & **Express.js** for web application, Implementing advanced **multi-filter search** functionality using **MongoDB**, optimizing queries to achieve a **30%** reduction in data retrieval time.
- Leveraged **Mulesoft** to develop an API enabling secure **authentication** of **500+ employee's** work daily while ensuring data integrity, Mapped & optimized **20+ CIS Oracle** runs, maintained **TM** and **TP** API environments

Donut   January/2022 – May/2022
Front-End Intern   *Remote*
- Developed responsive landing page using **React**, **SASS**, and **JavaScript** during internship. Built **10+** reusable **UI components**, improving code reusability by **30%** and reducing page load time by **25%**.
- Collaborated with senior front-end engineer to build website during internship. Implemented **30+** unit tests, reducing bug by **25%**. Improved code quality through debugging, decreasing development cycle time by **15%**.

PROJECTS

Paytm Clone -Secure transcation | *Link*   March/2024 – April/2024
- Engineered a full-stack Paytm clone utilizing the **MERN** technology stack. Empowered users with essential features like secure **signup/login**, seamless **money transfers** between users, and efficient **user search** capabilities.
- Crafted an user-friendly**Next.js/Tailwind CSS** front-end for seamless user interactions. Engineered a robust **Express.js/Mongoose** back-end to facilitate secure, scalable transactions via **JWT** authentication.

Peer-to-peer Watch Party   July/2023 – August/2023
- Engineered a synchronized video-watching platform using **TypeScript**, **Node.js**, and **Express**, leveraging **WebTorrent** for peer-to-peer streaming and **WebRTC** for real-time synchronization.
- Containerized the application with **Docker** and successfully deployed it on a **bare-metal server**, demonstrating proficiency in infrastructure management and optimization.