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 <https://mohakwaghchaure.github.io/portfolio/>

Summary

Experienced Full Stack Engineer with a strong expertise in developing seamless user experiences, ranging from single-page applications to complex, large-scale software solutions. Demonstrated success in driving code usability, application stability, and performance by adhering to clean, maintainable coding practices. Skilled at optimizing UI interactivity, leveraging cutting-edge technologies to consistently deliver exceptional, user-centric experiences.

Work Experience

Subconscious.ai, Inc.

Jun 2024 - Oct 2024

Frontend / User Experience Engineer

New York, NY, US

- Collaborated during Agile sprints with designers and managers to align UI specifications in Figma, improving team alignment and design efficiency.
- Developed and optimized over 10 responsive UI components using TypeScript, React.js, Next.js, Material-UI, Tailwind CSS, and Redux for state management, while crafting dynamic visualizations with D3.js and Chart.js, boosting interactivity and user engagement by 40%.
- Streamlined development processes by troubleshooting complex bugs and leveraging Docker for containerization, while implementing automated tests with Jest, improving system efficiency and application stability by 20%.
- Integrated secure JWT tokens for authentication and authorization, designed and implemented RESTful APIs using FastAPI and Python, leveraging Git for version control and CI/CD workflows with Jenkins for reliable deployments.
- Integrated 5+ cutting-edge features using open-source AI libraries and LLMs, deploying applications via GCP/AWS, AWS Lambda for serverless functions, and Vercel, driving innovation and enhancing application functionality and performance.

Rutgers university

Jun 2023 - Jun 2024

Peer Mentor - Rutgers University Newark Re-enrollment

Newark, NJ, US

- Managed RU-N Rising's social media using Planoly, boosting Instagram engagement by 40%, and designed impactful posts and flyers with Canva and Adobe Express.
- Implemented and maintained Flowcode webpages for seamless data collection, which streamlined interactions and improved data management efficiency.
- Performed data-driven analysis using Excel to create personalized student guidance strategies, contributing to a 28% increase in graduation rates.
- Organized events and analyzed re-enrollment trends using Tableau, which improved student retention and satisfaction by providing actionable insights.
- Trained new peer mentors and provided ongoing insights and support, which enhanced the overall student experience and mentor effectiveness.

Gray Matrix Solutions Pvt. Ltd.

Oct 2021 - Jun 2022

Assistant Frontend Developer

Mumbai, India

- Collaborated with UI/UX professionals in Agile sprints to conceptualize layouts, prototypes, and UI specifications in Figma, streamlining workflows and improving design efficiency.
- Built responsive front-end solutions for 10+ websites using HTML, CSS, SCSS, Bootstrap, Material-UI, and GSAP, enhancing UI interactivity by 20% and ensuring cross-browser compatibility and mobile optimization, while managing WordPress integrations for content management.
- Developed 20+ reusable components with React.js and Angular.js, leveraging Node.js, MongoDB, and EJS templates, resulting in a 25% boost in scalability and code reusability, Used Redux for state management improving project efficiency by 15%.
- Implemented Jest and Mocha testing frameworks for comprehensive unit tests, ensuring consistent code quality and reliability, which reduced bugs by 30% and sped up development cycles through automated testing and CI/CD pipelines.
- Leveraged AWS Lambda for serverless functions, collaborating with backend engineers to integrate Express.js and PHP Laravel logic, optimizing performance, reducing infrastructure costs, and improving overall application speed by 20%.

Indigo Consulting - Digital Marketing Agency, Publicis Groupe

Jun 2019 - Sep 2020

Associate Developer

Mumbai, India

- Collaborated with designers, account managers, and clients to gather UI and project requirements, ensuring alignment within the Agile methodology.
- Developed and maintained websites using HTML, CSS, SCSS, JavaScript, jQuery, and collaborated with backend developers on .NET and Java server-side logic for seamless integration.
- Managed content across 5+ websites using CMS platforms like WordPress, Shopify, Drupal, and Adobe Experience Manager (AEM), Experienced with BigCommerce theming, plugins and custom solutions.
- Boosted website performance by 22% through effective SEO techniques, utilizing Google Lighthouse and GTmetrix for detailed analytics and performance insights.
- Managed validations, REST API integrations, bug fixes, FTP tasks, and conducted code reviews, ensuring seamless functionality, optimal performance, and efficient project delivery.

Bysness Inc., Pinsaar Software Technologies Pvt. Ltd.

Sep 2018 - Jun 2019

Frontend Developer

Mumbai, India

- Collaborated with a team of 2 designers and 5 developers to define UI requirements and establish layout designs using Adobe XD.
- Developed responsive web interfaces for 5+ web applications using HTML, CSS, SCSS, and media queries, ensuring cross-device compatibility.
- Enhanced user experience by 20% with dynamic functionality, DOM manipulation, and animations using JavaScript and the GSAP library.
- Managed Node.js backend operations, handling MongoDB and SQL database integration, CRUD operations, and client/server-side validations.
- Conducted cross-browser compatibility testing, ensuring consistent performance and a seamless user experience, while utilizing Git/Bitbucket for version control.

Education

Rutgers University - Newark and New Brunswick

Sep 2022 - Dec 2023

Master, Information Technology and Analytics

New Jersey, US

- **Coursework:** Information Security, Business Data Management, Software Development, Analytics Business Intelligence, Project Management, Business Analytics Programming, Data Mining, Algorithmic Machine Learning, Data Visualization

Skills

- **Technologies:** HTML, CSS, SCSS, JavaScript, JSON, Typescript, Node, React, Next, Angular, Express, Python, C++, Java, SQL, MySQL, MongoDB, FastAPI
- **Frameworks:** Flexboxgrid, Bootstrap, Tailwind, MaterialUI, jQuery, GSAP, EJS, Pandas, NumPy, Jest, Cypress, D3js, Chartjs, Recharts, WebGL, Spring, Hibernate
- **Tools:** Vscod, Webstorm, Tableau, Slack, GitHub, Git, JIRA, Firebase, Shopify, Redux, Postman, Swagger, Vercel, Docker, AWS, EC2, Lambda, GCP, NPM, Webpack, Babel
- **Methodologies:** Agile Development, Microservices, CI/CD, SEO, Data Structures, Algorithms, Object-Oriented Programming, Unit Testing, DOM manipulation, Responsive Design, CMS, WCAG, TDD, REST APIs

Projects

Subconscious.ai inc.

Subconscious.ai (Web Application)

- Built an experiment flow with Next.js, utilized React components and hooks for state management and boost code reusability by 20%.
- Maintained components in Typescript utilizing ESLint, Wrote API routes for frontend, consolidated Tailwind, MaterialUI to enhance user interaction, and speed up the development process by 10%, Built API endpoints with FastAPIs, improving response times by 5%.

Subconscious.ai inc.

Subconscious.ai (Website)

- Maintained the Subconscious.ai website using Next.js, employing React components and hooks for efficient state management and developing a pricing page for the website, achieved a 20% performance increase through optimization techniques.
- Managed components in TypeScript while utilizing ESLint for code quality and Tailwind CSS for responsive design, ensuring a consistent and visually appealing user interface.

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Talkk.ai (Website)

- Established the initial setup with Node.js and EJS, and utilized HTML, SCSS, React, and Bootstrap to enhance code reusability by 17%.
- Implemented JavaScript and jQuery for a dynamic user interface, employed media queries for responsive and mobile-first design, and wrote Express.js code for effective page routing, leading to improved site performance by 25%.

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Differential Capital (React Application)

- Built user and admin modules with HTML, SCSS, used bootstrap and React components boosting code reusability by 25%.
- Implemented React animations along with JavaScript codes to enhance user interaction, responsive design and mobile-first approach, integrated webpage for a 20% faster development process.

Personal

Runners World (E-commerce Application)

- Developed an eCommerce platform using Java and Spring, leveraging dependency injection to streamline service management and improve modularity across the application.
- Built a responsive front-end with Bootstrap to enhance user experience by 40% and code reusability by 10%, seamlessly integrating with the Spring back-end for efficient inventory management, order processing, and customer interactions.

Certifications

- **The web Developer Bootcamp:** Colt Steele (Udemy) - HTML, CSS, JS, React, Node, MongoDB, Express, REST - Aug 2021
- **React - The Complete Guide:** Academind (Udemy) - React, Hooks, Redux, React Router - Jul 2021