TANUSHA AYER

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FULL STACK DEVELOPER

Full Stack Developer with over 2 years of experience dedicated to crafting and optimizing user-focused web applications using modern front-end technologies such as React, TypeScript, and Next.js. Proficient in building dynamic and reusable components and excelling in CSS frameworks like Material UI, Tailwind for responsive and visually appealing designs. Utilized Node.js, Scala, and Java to develop secure and high-performance server-side solutions. Experienced in RESTful API design and database management to ensure seamless communication between the front-end and back-end systems. Followed agile methodology and SDLC for timely and high-quality deliverables. Strong command over Cypress, Git, Maven, MySQL, PostgreSQL, GraphQL.

SOLID principle • Object Oriented Programming • Functional Programming • Dependency Injection
Test Driven Development • Web Services • Database Development • Microservices • Frontend/Backend Development

Languages: JavaScript, Scala, Java
Web: React.js, Redux/Redux Toolkit, Zustand, HTML, CSS, Material UI, EJS, JQuery, Node.js
Web Services: REST, GraphQL
Web/App Servers: Apache, Tomcat
Frameworks: Next.js, Express, Spring Boot, Hibernate
Databases: MySQL, PostgreSQL, Dgraph
Design Patterns: Factory, Singleton, Facade
SDLC: Agile / Scrum
Tools: Maven, Postman, VS Code, Docker, Git, Trello, Cypress, Jenkins
Platforms: Windows, Linux
Application/Software: KeyCloak

PROFESSIONAL EXPERIENCE

CAREER NOTE: *Completed on-campus studies and currently taking distance education courses to complete a* ***Master's Degree in Computer Science*** *(Available for full-time, W-2 employment).*

WISEYAK INC., Kathmandu, Nepal • 03/2021 – 03/2023
An AI-based healthcare IT company for healthcare solutions.

Full Stack Software Engineer
Built EMR web applications.

- Designed and maintained responsive and user-friendly interface of the website using React.js and JavaScript, alongside Material-UI(MUI) improving user experience and ensuring seamless navigation, resulting in a 25% increase in user engagement.
- Engineered server-side solutions with Node.js, GraphQL, and Dgraph for efficient retrieval, manipulation, and storage of healthcare schemas within WiseMD platform.
- Spearheaded the integration of FHIR and UMLS standards in WiseMD, enabling secure, standardized healthcare data exchange that facilitated in 40% improvement in interoperability and data accuracy across healthcare systems.
- Designed and implemented RESTful APIs to facilitate communication between front-end interfaces and backend services using Scala, HTTP4s, ZIO, Circe, Tapir, Cats, and Doobie to query the EventStoreDB optimizing data retrieval and processing efficiency by 25%.
- Pioneered the creation of an RDF graph interface and its methods in Scala, streamlining data manipulation and access for improved efficiency of up to 15%. Elevated technical interoperability of the FHIR ontology by leveraging SHACL within the graph interface, ensuring data consistency and compliance with industry standards.
- Implemented authentication and authorization mechanisms, including JWT, OAuth, or session-based authentication using Keycloak and managed Cross-Origin Resource Sharing (CORS) ensuring secure and seamless communication between client and server components.
- Integrated the Cypress testing framework within GitLab CI/CD pipeline to automate testing processes, achieving a 25% increase in code quality and 20% decrease in post-deployment bugs.

Technologies Used: *React, JavaScript, Material-UI, GraphQL, Dgraph, Node, Cypress, FHIR, Docker, Jenkins, Scala, Doobie, Http4s, Cats, ZIO Test, Postman, Keycloak, Git, Tapir, Circe, ZIO, Git*

<div align="center">**FREELANCE EXPERIENCE**</div>

ENTERPRISE E-SUPPORT INC, Springfield VA, USA • 11/2021 – 2/2022
An IT company that helps businesses transform, optimize and operate their IT portfolios without disruption at a low cost.

Software Developer/ Quality Assurance (Remote)
Developed and tested EeS and/or EeS Customer Software Solutions.
- Spearheaded the creation and execution of initial migrations for deploying and testing the application using Node.js, contributing to a smooth and efficient deployment process.
- Rectified broken prewritten migrations, enhancing the stability and functionality of the application, resulting in a 40% reduction in deployment errors and established initial Cypress libraries for testing, improving test coverage.
- Designed and executed comprehensive test plans, test cases, and test scripts using Jira, resulting in 90% test coverage and identifying critical issues before production deployment.

Technologies Used: *React, Node, Express, Postgres, Cypress, AWS deployment, Docker, Git*

<div align="center">**INTERNSHIP EXPERIENCE**</div>

NUMERIC MIND, Kathmandu, Nepal • 1/2021 – 3/2021
Data focused clinical research organization.

Search Engine Optimization Intern
- Faciliated the development of brand-new websites for Wiseyak Inc and Numeric Mind, incorporating modern design principles and user-friendly interfaces to enhance online presence and user engagement.
- Implemented Google Analytics and SEO optimization strategies to improve website visibility and drive organic traffic, resulting in a 40% increase in website visitors and 25% improvement in search engine rankings.
- Curated engaging and informative content for Wiseyak's blog page, addressing industry trends, best practices, and company updates, attracting 15% more visitors and fostering community engagement.
- Executed on-site and off-site SEO initiatives, including keyword research, link building, and content optimization, resulting in a 30% increase in website traffic and 20% improvement in conversion rates.

Technologies Used: *Wordpress, CMS*

<div align="center">**ACADEMIC PROJECTS**</div>

Maharishi International University (2024) Real Estate Property Management: It is designed to streamline the operations of real estate property management using microservices architecture and Spring Boot framework. Utilized Spring Boot, Spring JPA, Spring Security, Spring Data, Eureka Server, Spring Web, Spring Security, PostgreSQL, Hibernate, Postman, Docker, RabbitMQ, MySQL, Git

Maharishi International University (2024) News Portal: It is designed to streamline the operation of news portal service using Next.js, Node Js, TypeScript, React JS, Docker, MUI, PostgreSQL, Postman, Git

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EDUCATION
Master of Science in Computer Science
(In progress via distance education; expected completion 06/2026)
Maharishi International University, Fairfield, Iowa

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Key Courses: Web Application Programming, Enterprise Architecture, Algorithms, Web Application Architecture

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Bachelors in Computer Science and Information Technology
Tribhuvan University, Kathmandu, Nepal (2020)

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