Chabathula Vasni Martin
Frontend Developer

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Professional Summary:

- **8+ years of experience as a Full Stack Developer**, specializing in designing, developing, and deploying scalable web applications for enterprise-level clients.
- **Expertise in Angular (versions 2 to 16)**, JavaScript, TypeScript, and modern web standards for creating dynamic and high-performance user interfaces.
- **Proficient in backend development** using NestJS, with a focus on building efficient, modular, and maintainable APIs.
- **Experienced in cloud deployments**, particularly with AWS S3, ensuring secure and scalable content delivery.
- **Skilled in responsive web design** using HTML5, CSS3, Bootstrap, and translating Figma designs into pixel-perfect UI components.
- **Comprehensive knowledge of version control** with Git, and implementing CI/CD pipelines using Jenkins and SonarQube for efficient deployment.
- **Expert in automated testing** with frameworks like Cypress, Jasmine, and Karma to ensure high code quality.
- **Svelte Development Expertise:** Proficient in developing lightweight and performant web applications using Svelte, focusing on reactive programming and efficient DOM updates. Expertise in building reusable Svelte components and optimizing applications for speed and scalability, ensuring exceptional user experiences.
- **Strong proficiency in UI/UX design**, leveraging tools like Figma, Adobe XD, and Sketch, and adhering to WCAG standards for accessibility.
- **Adept in agile methodologies**, actively participating in SCRUM processes and mentoring junior developers in Angular best practices and modern web trends.
- **Experienced in enhancing legacy applications** for performance optimization and scalability.
- **Engaged in cross-functional collaboration** with backend, UI/UX, and QA teams to ensure cohesive project delivery.
- **Embedded Systems Integration**: Experience in developing and optimizing **UI pipelines** for **embedded platforms**, ensuring resource-efficient performance in constrained environments like consumer electronics and TV applications.
- **Game Development**: Familiarity with **Unreal Engine**, developing interactive and **dynamic user interfaces** for gaming environments while optimizing rendering performance for responsive user interactions.
- **Committed to continuous improvement** by integrating advanced NLP capabilities and automating backend processes using LLM APIs for tasks like log analysis and anomaly detection.

EXPERIENCE

Sr. Full Stack Developer- Austin, Texas   **Dec 2022- October 2024**

Client: DTCC Project

Description: Orion Innovation is a global digital transformation and product development company that delivers innovative technology solutions. It focuses on empowering enterprises with agility and scalability through cutting-edge products and services, ensuring businesses stay ahead in a competitive landscape.

Project Overview:
At Orion Innovation, I spearheaded the modernization of a six-year-old legacy application into a **scalable, responsive web application** using **Angular**, **React**, and modern frontend technologies. This included **revamping the user interface**, **integrating APIs**, and enhancing usability to drive increased user adoption. Additionally, I integrated **Large Language Models (LLMs)** to elevate user interactions and automate backend processes. My focus also extended to optimizing UI rendering pipelines for **resource-constrained environments** and adhering to **embedded systems best practices**.
Project: Legacy Application Modernization and Frontend Development

Key Responsibilities and Achievements:

Application Modernization:

- Upgraded a six-year-old legacy application, enhancing functionality and user interface responsiveness using Angular and React.
- Optimized application performance to ensure high-speed data processing and responsiveness.
- Integrated LLM-based chatbots to provide real-time user support and improve customer engagement.
- Implemented **UI rendering optimizations** for efficient performance on **embedded platforms** with constrained resources.

Frontend Development and UI/UX Design:

- Designed and developed user-centric, visually appealing interfaces for web applications using Figma, ensuring an intuitive and seamless user experience.
- Created interactive wireframes, high-fidelity mockups, and functional prototypes in Figma, aligning with user needs and business objectives.
- Developed and maintained design systems in Figma, including reusable components, typography standards, and design guidelines, ensuring consistency across Angular and React projects.
- Conducted user research, usability testing, and stakeholder interviews to refine designs and ensure alignment with user behavior and preferences.
- Designed and implemented interactive dashboards and workflows using Angular and React, enabling users to manage complex data effectively.
- Developed dynamic, reusable components in React and Angular using advanced patterns, improving consistency and scalability.
- Applied **WCAG 2.1 accessibility standards** to ensure inclusivity and usability across diverse user demographics.
- Built responsive web designs using HTML, CSS, Bootstrap, and Material-UI, ensuring compatibility across devices and browsers.

- Led end-to-end design and development processes, from conceptualizing UI/UX designs in Figma to deploying functional components in Angular and React projects.

React-Specific Development Highlights:

- Built modular and reusable functional components in React, leveraging **React Hooks**, **Context API**, and **Redux** for advanced state management.
- Improved application performance by implementing **code-splitting** and **lazy loading** with React, reducing load times significantly.
- Integrated **React Router** for seamless navigation in single-page applications (SPAs), optimizing user experience and flow.
- Developed dynamic forms and validation workflows using React, increasing user input accuracy and enhancing interactivity.
- Created a custom **UI component library** in React for consistent design and accelerated development timelines.
- Built reusable **React components** using **Hooks, Context API**, and **Redux**, enabling state management for complex SPAs.
- Optimized React applications by implementing **lazy loading, code-splitting**, and dynamic imports, improving load times by 35%.

Angular-Specific Development Highlights:

- Delivered high-performance, responsive web applications using Angular, focusing on modular design and scalability.
- Designed and implemented custom directives, services, and pipes, enabling efficient data handling and dynamic UI updates.
- Integrated RESTful APIs into Angular components, ensuring seamless communication between frontend and backend systems.
- Developed lazy-loading modules in Angular to enhance page performance and optimize resource usage.
- Built dynamic forms using **Reactive Forms** in Angular, enabling seamless user data capture and validation.

API Integration and Management:

- Integrated and validated RESTful APIs with both React and Angular, ensuring secure and efficient data communication.
- Used **Postman** to test, validate, and document API endpoints, ensuring robust backend connectivity.
- Incorporated LLM APIs (e.g., OpenAI GPT) for advanced NLP capabilities such as sentiment analysis, text summarization, and conversational interfaces.

Embedded UI Development and Optimization:

- Designed and implemented **resource-efficient UIs** using XML and JSON for **embedded platforms** in consumer electronics and TV applications.
- Developed and optimized **UI rendering pipelines** to ensure smooth performance on resource-constrained devices.
- Conducted **usability testing** to refine UI/UX designs for embedded systems, improving overall user experience.
- Developed interactive and visually engaging UI components for **Unreal Engine** projects, focusing on **user-centric design** for gaming environments.
- Collaborated on game-like features for **embedded systems**, leveraging knowledge of **real-time rendering pipelines**.
- Designed **lightweight interactive elements** and integrated them seamlessly into **resource-constrained platforms**.
- Gained familiarity with **game engine workflows** to implement dynamic, reusable components tailored for gaming and embedded UI systems.

AI/ML Integration
- Integrated LLM APIs (e.g., OpenAI GPT, Hugging Face Transformers) to enable advanced NLP features, including sentiment analysis, text summarization, and conversational interfaces.
- Collaborated with data scientists to seamlessly integrate AI/ML pipelines into frontend components, enhancing functionality.
- Designed user interfaces for AI-powered features, ensuring usability and intuitive workflows for non-technical users.

Version Control and Deployment:

- Managed codebases in Git, ensuring proper version control and smooth collaboration across Angular and React projects.
- Orchestrated deployments to **AWS S3 buckets**, configuring scalable and secure storage solutions for application assets.
- Implemented CI/CD pipelines with **Jenkins** and **GitLab CI**, automating build, test, and deployment processes.

Team Collaboration and Leadership:

- Collaborated with UX/UI designers, product managers, and backend developers, aligning design and technical goals for cohesive project delivery.
- Mentored junior developers on **UI/UX best practices**, advanced React and Angular techniques, and performance optimization.
- Conducted regular design reviews and code reviews, maintaining high-quality standards and adherence to project requirements.

Technical Environment and Tools:

Frameworks/Libraries:
- *Angular, React*

Design and Prototyping:

- *Figma*
  API Testing:
- *Postman*
  Version Control:
- *Git*
  Cloud Services:
- *AWS (S3, Lambda)*
  CI/CD Tools:
- *Jenkins, GitLab CI*
  LLM Tools:
- *OpenAI GPT, Hugging Face Transformers*
  Game Development Tools:
- *Unreal Engine*

ValueLabs, Austin, Texas   *Aug 2016 – Nov 2022*
Software Engineer

Client: Toshiba - Inventory History

Company Description:
ValueLabs is a global technology company specializing in IT services and solutions, delivering excellence in digital enablement, software product engineering, and enterprise solutions. With a global presence and a focus on client success, ValueLabs is renowned for its cutting-edge solutions across industries, leveraging advanced technologies to drive digital transformation.

Project Overview:
At ValueLabs, I modernized a legacy application into a highly responsive and user-friendly web solution using **React** and **Angular**. My role involved designing intuitive UI components, integrating APIs, and ensuring optimal performance, resulting in improved user engagement and operational efficiency.

Responsibilities:

Frontend Development and UI/UX Design:
- Designed and developed adaptable user interfaces for online applications utilizing Angular and JavaScript, focusing on modular design and code reusability.
- Translated Figma design specifications into precise, functional UI components, ensuring visual and functional fidelity to meet user experience goals.
- Engineered a Dynamic Form Builder and Logic Builder, facilitating the creation of complex, no-code applications that allow users to customize their interactions dynamically.
- Built a **React UI library** for reusable components, reducing development time across projects.
- Integrated **Redux** for state management, ensuring a predictable state across dynamic user interfaces.
- Developed a **Dynamic Form Builder** and custom logic tools, enabling non-technical users to create workflows effortlessly.
- Conducted performance testing, optimizing **Angular** and **React** applications for high-load environments.

Performance Optimization and Testing:
- Performed rigorous performance testing to ensure application scalability and stability under high-load conditions, optimizing application response times and resource utilization.

- Automated end-to-end testing using Cypress, designing comprehensive test suites that cover all user stories and edge cases to maintain high standards of code quality and application reliability.
- Integrated and validated APIs using Postman to ensure seamless application functionality, optimizing data flow and interaction between frontend and backend systems.

API Integration and Workflow Validation:
- Integrated numerous RESTful APIs into the frontend, ensuring smooth data retrieval and state management across user sessions.
- Validated API responses and workflows using Postman, fine-tuning system interactions and data handling processes for enhanced performance and user satisfaction.

Version Control and Deployment:
- Managed multiple GIT repositories, implementing robust branching and merging strategies to facilitate efficient version control and collaborative development.
- Orchestrated the deployment of applications across staging and production environments using CI/CD pipelines, ensuring consistent deployments and rapid turnaround on critical updates.

Collaboration and Project Management:
- Collaborated closely with backend development teams to coordinate assignment of user stories and ensure seamless UI integration and functionality across all application components.
- Set up project structures from scratch, developing quick prototypes for proof of concepts (POCs) to validate ideas and technical approaches in early stages of the development cycle.

Code Quality and Reusability:
- Developed and maintained a library of reusable Angular components, significantly reducing development time and increasing efficiency across projects.
- Adhered to best practices in coding and architectural design, documenting all code and systems to support maintainability and future upgrades.

Technical Environment and Tools:
- *Frontend Development:*
  - *Frameworks/Libraries: Angular, AngularJS*
  - *Programming Languages: JavaScript, HTML, CSS*
  - *Design Tools: Figma*
- *Tools:*
  - *Figma*
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- *Testing and Validation:*
  - *Testing Frameworks: Cypress*
  - *API Testing: Postman*
- *Version Control:*
  - *Systems: GIT*
- *Cloud and Deployment:*
  - *Cloud Services: AWS (Amazon Web Services)*

EDUCATION:
- Pragati Engineering College in Andhra Pradesh, Rajahmundry- *CSE* July 2008 - April 2014\

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