BALACHANDER PALEPU

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Summary:

I'm a seasoned software developer with over 3 years of experience in designing and developing web applications using React, NodeJS, and RESTful APIs. I have a proven track record of delivering high-quality solutions that meet both business and technical requirements. One of my core strengths is to build code that's simple, testable, scalable, and reusable. I've got a strong set of communication skills to collaborate effectively with large cross-functional teams and deliver results in a timely manner. I'm very passionate about technology and believe in driving business success through technology.

Skillset:

Programming Languages: JavaScript, TypeScript, Python

Front-end Technologies: React, Redux, Jest, HTML5, CSS3

CSS Frameworks: Bootstrap, Semantic UI, Sass, SCSS, Tailwind

Back-end Frameworks: Node.JS + Express

Databases: MySQL, MongoDB

Version Control: Git

OS: Windows, Linux, Mac

Cloud: AWS (EC2, ECS, ECR, CodeBuild, CodePipeline, Lambda), GCP

API Tools: OpenAPI, Postman

Tools: Webpack, Babel, JIRA

Development methodologies: Agile, Test-Driven Development (TDD)

Professional Experience:

4AIML Solutions Limited, USA

Software Developer (Remote) - Contract   **Dec 2021 – Present**

- Collaborate with a team of developers to design, develop, and maintain a complex web application using React, Redux, and NodeJS.
- Implement RESTful APIs to handle data retrieval and manipulation, ensuring seamless communication between the front-end and back-end systems.
- Utilize TypeScript, Python, and JavaScript to write clean, efficient, and scalable code.
- Work closely with the product team to understand business requirements and translate them into technical solutions.
- Enhance application performance and user experience by optimizing front-end components and API endpoints.
- Integrate third-party APIs for payment processing and data analysis, ensuring security and compliance with industry standards.
- Lead and participate in agile development methodologies, including daily stand-ups and sprint planning meetings.
- Manage CI/CD pipelines using AWS CodePipeline and CodeBuild to automate the deployment process and achieve faster releases.
- Collaborate with cross-functional teams, including QA, UX/UI designers, and product managers, to ensure seamless project delivery.

WIMTACH Centennial College, Toronto, Canada

NodeJS/AWS Developer (Remote) – Contract   **Aug 2022 – Sep 2022**

- I led the development of an e-commerce platform where a company, an organization or a regular citizen can trade carbon credits to compensate for greenhouse gas emissions. The backend is built using Node.JS and Express in TypeScript with MongoDB for persistent storage.

- One of the key design decisions that I've made early in the project is to use **OpenAPI (Swagger)** for describing the backend API. The spec is automatically generated using tsoa.
  - This helped reduce the friction between the backend and frontend teams as the frontend team used the OpenAPI spec to auto-generate the client library to interact with the backend.
  - This also helped catch a lot of bugs before deployment when the backend made a backwards incompatible change to the API. A CI step would auto-generate the client library and the frontend would fail to compile in the presence of such incompatible changes.
- The project required integration with third-party APIs for the computation of carbon credits. One of the challenges was to ensure that the rate-limits set by the third-party APIs were not exceeded. I've built a simple solution that ensures that we never exceed the specified rate limits on the backend and instead caught these potential errors early and propagated them appropriately through our UI.
- Implemented and managed CI/CD pipelines using AWS CodePipeline, streamlining the software development process, and improving deployment efficiency.

Total System Services, Delaware, USA

Software Developer (Remote)   **May 2019 – Oct 2021**

- I developed a customized CRM analytics portal for the Business Development team, enabling them to run queries and gain insights into customer data.
- The CRM was primarily built in JavaScript with a Node.JS + Express backend and React + Redux in the frontend. It also extensively used Chart.js and CSS animations for visualizations.
- One of the challenges was to build an end-to-end testing and deployment (CI/CD) pipeline because of the number of services involved. In addition to the services required for the CRM, there were other auxiliary services that were required by the Business Development team.
  - We eventually ended up using docker and deployed to AWS ECS using GitHub Actions.
  - End to end API testing was done using Postman.
- I onboarded and mentored an intern and they successfully implemented small parts of the functionality in the project under my supervision.

Education:

Centennial College, Toronto, Ontario   **Jan 2021 - May 2022**

PG-Diploma in Software Engineering Technology - Artificial Intelligence

Jawaharlal Nehru Technological University, Hyderabad, India   **Aug 2015 - May 2019**

Bachelor's in Computer Science and Engineering

Soft Skills:

- Exceptional critical thinking and problem-solving skills.
- Communicative, self-motivated, and able to work both independently and in a group setting in a high volume, fast-paced, demanding, and cross-functional team environment.
- Excellent communication skills.