Letter of Intent

Dear Srisailam Kakurala,

We are thrilled to offer you the position of **Software Engineer - Intern** at Poditivity for a duration of 6 months. In this role, you will collaborate closely with our talented engineering team, contributing to the development of innovative solutions that enhance our platform. This internship will provide hands-on experience across various aspects of software development, enabling you to strengthen your technical skills while making a meaningful impact on our projects. We look forward to having you onboard for this enriching journey!

Position Overview

As a Software Engineer Intern at Poditivity, you will collaborate with our engineering team to develop and enhance our innovative platform. You will be involved in various aspects of the software development process, including designing features, troubleshooting issues, and participating in code reviews. This internship offers an excellent opportunity to gain hands-on experience and contribute to meaningful projects that drive the success of our initiatives.

Responsibilities

- **Frontend Development:**
  - Collaborate in developing responsive and high-performance mobile applications using React Native.
  - Build modular, reusable components and libraries for future use with Next.js.
  - Ensure the technical feasibility of UI/UX designs and translate wireframes into high-quality code.
  - Implement dynamic UI components that interact with AI agents in real-time (e.g., chat interfaces, recommendation systems).

- **Backend Development:**
  - Develop server-side logic, APIs, and business logic using Node.js and Express.js.
  - Work with GraphQL to build dynamic, flexible APIs that interface with frontend and backend systems.
  - Integrate MongoDB and PostgreSQL, ensuring efficient and secure data flow between applications.
  - Enable backend support for AI agent pipelines (e.g., intent recognition, contextual memory, data ingestion modules).

- **Microservices Architecture:**
  - Participate in designing and developing microservices that are scalable, maintainable, and secure.
  - Collaborate with senior engineers to ensure proper implementation and integration of services.
  - Develop and manage microservices dedicated to AI agent capabilities like task orchestration, knowledge retrieval, or memory management.

- **AI Agent Development:**
  - Assist in designing and developing domain-specific AI agents using LLMs, prompt engineering, and fine-tuned models.
  - Integrate APIs such as OpenAI, Hugging Face, or custom models to power intelligent assistants and task automation.
  - Collaborate on building agent workflows that can observe, reason, and act within the application ecosystem.
  - Maintain a feedback loop for improving agent performance using telemetry, logs, and user feedback.

- **Testing & Debugging:**
  - Write unit tests, integration tests, and E2E tests to ensure code quality and catch issues early.
  - Debug and troubleshoot application issues across the stack to improve overall system performance.

- Test agent actions, context management, and fallback handling using real and simulated scenarios.

- **Collaboration & Agile Workflow:**
  - Work closely with product managers, designers, and senior engineers to deliver features according to timelines.
  - Actively participate in code reviews, contributing to the continuous improvement of the codebase.
  - Adhere to agile methodologies, contributing to sprints and participating in daily standups.

- **Continuous Learning:**
  - Stay updated with the latest developments in frontend, backend, and database technologies.
  - Take initiative to explore and contribute to emerging technologies in AI/ML, LLMs, and autonomous agent frameworks (e.g., LangChain, AutoGen, ReAct).
  - Experiment with novel approaches in human-AI collaboration, responsible AI, and performance tuning for intelligent systems.

What You'll Gain

This position offers a unique opportunity to collaborate with a talented engineering team, gaining insights into modern software development practices. You'll contribute to impactful projects that enhance our platform while developing your technical skills in various areas of software engineering. We believe your ability to collaborate effectively, adapt to new technologies, and thrive in a dynamic environment will make you an excellent fit for this role.

If you are excited about this opportunity to grow with us and contribute to our company's success, please let us know at your earliest convenience.

We look forward to working with you!

Warm regards,

Thakur Prashanth
Founder & CEO
Poditivity Advertising and Education Private Limited

Acceptance of Offer:
I, Srisailam Kakurala, accept the above-mentioned terms and conditions of the employment offer with Poditivity.

Signature: _____

Date: _____