Manthan Desai

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SUMMARY

Software Engineer with over 3 years of experience in frontend and AI development. Successfully engineered an engaging chat bot using OpenAI's GPT-3.5 API at Radical AI and improved user activity by 40%. Designed efficient GUI components and core backend functionalities, enhancing system reliability and reducing message latency by 25%. Experienced in code optimization and seamless real-time feedback integration aimed at bolstering UI/UX for large-scale user bases.

EDUCATION

University of Western Ontario

Bachelors of Science, Major in Computer Science | September 2021 - April 2025, London, ON

Relevant Coursework:

Data Structures and Algorithms | Databases | Artificial Intelligence | Operating Systems | Computer Architecture

WORK EXPERIENCE

Radical AI | Python, OpenAI API, Node.js, React.js, MongoDB, Firebase

Software Engineer Intern | June 2024 - Aug 2024, Remote, Canada

- Engineered an engaging and intuitive frontend chat application using **React**, connecting it with **OpenAI's GPT-3.5 API**. Enhanced user interaction and engagement, resulting in a **40% increase** in user activity on the platform.
- Designed and implemented **core backend functionalities** using **Node.js** and **MongoDB** for a chat bot, ensuring real-time communication within a **Linux environment**. **Improved system reliability by 30%** and **reduced message latency by 25%**.
- Contributed to the development of Kai, an **open-source AI Teaching Assistant**. Enabled streamlined instructional design and assessment management, which increased **educator efficiency by 50%**.

ScaleAI | Python, C++, SQL, Javascript

Software Engineer | February 2024 - Present, Remote, Canada

- Designed and implemented targeted test cases, achieving an 70% code coverage rate for critical features which significantly contributed to early detection of bugs and reducing potential future downtime.
- Led prompt engineering strategies for AI models, using JavaScript and API integration to enhance creative and technical output and achieving a 20% improvement in project development efficiency.
- Authored clear, concise, and human-readable documentation for complex solutions involving operating systems and data structures for AI models.

TD Securities | *Microsoft Office*, *Jira*, *Java*

Business Systems Analyst Intern | May 2022 - August 2022, Toronto, ON

- Reported on Key Risk Indicators, visualizing current and emerging risk trends, and monitored/managed 40+ assets.
- Set up meetings to discuss application findings with technology asset owners to mitigate risk and develop over **50 effective risk remediation plans**.
- Co-led Scrum meetings to lead training for a group of **30 technology asset owners** on issue management process and risk remediation workflow.

PROJECTS

Anesthesia Pocket Guide | *Javascript*, *React.js*, *Node.js* | *November 2022 - March 2023*

- Built a **mobile application** that assists medical students understand key anesthesia concepts broken down with visuals and quizzes to test their knowledge.
- Incorporated 5 most used calculators by anesthetists allowing for increased productivity at work.
- Ran a study on 30 medical school students and efficiency was increased by 15% for day to day operations.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C, C++, SOL, Typescript, HTML/CSS

Technologies/Frameworks: React.js, Node.js, Next.js, Linux, Git, Jira, Microsoft Office, Firebase, MongoDB, AWS,

Tensorflow