# Yuvaraj Kannan

*Full Stack Developer*

9894970783 | ai.yuvaraj.career@gmail.com | linkedin.com/in/yuvaraj-so-kannan | github.com/yuvaraj3855

## SUMMARY

Experienced Senior Full Stack Developer with 3 years of experience in AI technologies such as ChatGPT and Generative AI. Skilled in MERN Stack, Python, API development, and MySQL. Contributed to projects including AI-powered chatbots, a SOAP Notes Generator, POS-integrated systems, and Grafana dashboards. Proficient in LLM tools like LangChain and LlamaIndex, with experience deploying scalable solutions on AWS and GCP. Passionate about leveraging AI and full-stack development to drive innovation.

## SKILLS

**Languages**: JavaScript, TypeScript, Python, PHP, HTML, CSS, Node.js
**Frameworks**: React.js, Angular.js, Flask, FastAPI, Django, Express.js
**Developer Tools**: Git, Docker, Google Cloud Platform (GCP), AWS, Grafana, Postman, VS Code
**Libraries**: Pandas, NumPy, Requests, Beautiful Soup, SQLAlchemy, Axios, Moment.js, Sequelize
**Database Management**: MySQL, Cloud SQL, MongoDB, Redis, NoSQL, LanceDB, Qdrant DB
**Data Structures & Algorithms**: Proficient in implementing and optimizing DSA concepts for performance-critical applications

## EXPERIENCE

### Senior Full Stack Developer                                        Sep 2024 - Dec 2024

*Adshi5.Com Private Limited*                                                *Chennai, India*

- Led and mentored a team of developers, providing technical guidance and fostering a collaborative environment to achieve project goals.
- Led backend development using Python for data processing, API development, and AI model integration.
- Built responsive front-end interfaces with React.js for enhanced user experience.
- Performed prompt engineering to fine-tune AI models for generating accurate SOAP Notes.
- Deployed solutions on GCP using Google Cloud Run and Pub/Sub for scalable and serverless applications.
- Optimized application performance and ensured healthcare compliance with HIPAA standards.

### Full Stack Developer                                              Dec. 2021 – Jun. 2024

*Adshi5.Com Private Limited*                                                *Chennai, India*

- Led the initiative to integrate advanced AI technologies such as ChatGPT, Vertex AI, and Generative AI, along with the incorporation of llama-index and Redis for chat buffer memory management. This comprehensive approach yielded a remarkable **30% enhancement in system intelligence and performance**. Leveraging FastAPI, the implementation ensured seamless integration and efficient utilization of these cutting-edge tools, fostering a more robust and responsive system.
- Developed and optimised REST APIs for major advertising platforms like Google Ads, DoubleClick 360, and Facebook Ads using MERN Stack and Python, leading to a **25% improvement in system response time**.
- Proficient in front-end development utilising JavaScript, Cascading Style Sheets (CSS), and HTML to create seamless user interfaces and enhance user experience, resulting in a noticeable **improvement of user experience by approximately 20%**.
- Utilized React.js to build dynamic and responsive user interfaces, **improving user engagement by 40%**.
- Enhanced database management and optimization using MySQL, **leading to a 20% increase in data handling efficiency** and security.
- Proficient in Git for version control, delivering collaborative and streamlined software development workflows.

Career Highlights:

- Spearheaded REST API integration into Grafana dashboards, improving data visualization and reliability.
- Enhanced database accuracy and performance through systematic debugging and optimizations.
- Collaborated closely with other teams, including Ads and SEO, providing suggestions and improvements for their projects.
- Actively engaged with cross-functional teams, fostering exchange of insights and recommendations to enhance project alignment and continuous improvement.

**Executive** <span style="float:right">Mar 2017 - Dec 2021</span>

*Udaan india's B2B* <span style="float:right">*Chennai, India*</span>

- Managed a team of 16 members, achieving key performance metrics across multiple states.

## Projects

**AI-Powered SOAP Notes Generator** | *React.Js, Node.Js, Python, Cloud SQL, GCP*     Sep 2024 – Dec 2024

- Medscribe – Powered by cutting-edge AI, Medscribe transforms complex doctor-patient interactions into detailed, accurate SOAP Notes. This solution is designed to save time, reduce errors, and enhance patient care, improving overall healthcare documentation efficiency.

**AI-Powered Chatbot Development** | *Python, FastAPI, React.js, TypeScript, MySQL*     May 2023 – Dec 2024

- Leveraged Vertex and OpenAI to develop an AI-powered chatbot within Prompt Engineering, enhancing client satisfaction by delivering more accurate and insightful responses.
- Incorporated llama-index to optimize the chatbot's search and retrieval capabilities, ensuring efficient access to relevant information.
- Implemented continuous integration and continuous deployment (CI/CD) pipeline using tools such as Jenkins/GitLab CI.
- Automated testing and deployment processes to reduce manual intervention and improve deployment speed.
- Implemented Rag pipelines, leveraging advanced NLP techniques and TensorFlow, and integrated these pipelines with the llama index to enhance search functionality and streamline information retrieval processes. This involved incorporating models such as GPT4ALL, and LLM to ensure the chatbot provided accurate and insightful responses.
- As part of integration, implemented Salesforce lead generation using an AI chatbot. HubSpot was connected to enhance customer engagement and lead nurturing.
- Leveraged FastAPI with unicorn to ensure high-performance and efficient handling of API requests.
- Improved accuracy through advanced analysis techniques, resulting in a substantial enhancement in client feedback and overall satisfaction.
- Optimized chatbot performance by implementing advanced Data Structures and Algorithms (DSA).
- Enhanced chatbot retrieval efficiency using RAG pipelines and LlamaIndex.

**Online Ordering System (POS) Development** | *Node.js, React.js, MySql, Firebase, Git* April 2022 – April 2023

- Developed an online ordering system (POS) integrated with leading POS systems (Clover, Square), enhancing order management for a seamless user experience.
- Utilized Express.js, Node.js, React.js, Firebase, AWS and MySQL to construct a robust and efficient back end system, culminating in notable enhancements in performance and scalability.
- Ensured seamless integration with the front end, resulting in an elevated user experience and increased order efficiency.

**Grafana Dashboard** | *Node.js, PHP, Python, MySql, Firebase, HighLevel CRM*     Dec 2021 – Mar 2022

- Developed a Grafana dashboard integrating REST APIs from Google Ads, DoubleClick 360, and Facebook Ads.
- Utilized PHP, Node.js, and Python to connect and fetch data from MySQL for real-time visualization in the dashboard.
- Stored the iframe link in Firebase based on the HighLevel client ID, and seamlessly Connected it within the CRM tool's interface, ensuring easy access and utilization for users.

## Education

**University of Madras** <span style="float:right">Chennai, India</span>

*Bsc, Computer Science* <span style="float:right">*2013 - 2016*</span>