PRAWIN KANNAN
Software Engineer | Backend Developer | Full Stack Developer
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PROFILE SUMMARY

Results-driven Tech Lead & Software Engineer with extensive experience in AI/ML, AR/VR, Full Stack Development, and Cloud Computing. Proven expertise in leading AI-driven projects, developing scalable backend systems, and optimizing real-time data processing applications. Passionate about automation, AI-powered solutions, and open-source technologies. Adept at designing distributed systems, microservices, and cloud-native applications using Node.js, Golang, Python, and Django.

WORK HISTORY

Jio

Tech Lead *(December 2024 - Present)*

- **Led AI, ML, AR, and VR initiatives** to develop next-generation smart automation solutions.
- Developed **Jio Frames**, an AI-powered digital frame system using **computer vision and generative AI**.
- Worked on **Home Automation Systems**, integrating AI-powered voice assistants like **Siri and Google Home**.
- Designed and deployed **speech-to-text (STT) and text-to-speech (TTS) services** on Azure with containerized deployment.
- Architected **event-driven microservices** for AI model inference using **Kafka, Redis, and Golang**.
- Built **AI-powered Planning & Reasoning (LLM) microservices** for intelligent decision-making.
- Led a team working on **3D model rendering and AR/VR interactions** to enhance immersive experiences.
- Implemented **AI-driven chatbots and automation pipelines** to enhance Jio Tesseract's product suite.

Re:Shark

Tech Lead (02/2024 - Present)

- **Implemented a distributed system for real-time property listing data extraction.**
- **Developed an HRMS to manage internal teams and user roles.**
- **Created real-time investment tracking charts for property investments and rental yields.**
- **Developed an Investor Dashboard for monitoring investments and portfolio management.**
- **Optimized MongoDB data synchronization with Redis for improved performance.**
- **Added gamification features such as investment leagues and competitions through API development.**
- **Integrated AI tools like ChatGPT for enhanced data processing and user recommendations.**
- **Integrated HubSpot for customer relationship management.**
- **Built Golang-based microservices to handle scalable API processing for financial data and analytics.**
- **Developed real-time data streaming solutions using WebSockets in Golang (Gin & Echo).**
- **Built API rate-limiting mechanisms using Redis in Golang.**
- **Designed and implemented event-driven architecture using Kafka and Golang for high-performance data processing.**

GAMETION TECHNOLOGIES Pvt. Ltd.

Senior Software Developer(02/2022 - 02/2024)

- **Developed a distributed system in PHP to poll and extract election data in near real-time.**
- **Built an Online Web Ludo King Game using Node.js, MongoDB, and Canvas.**
- **Developed a Human Resource Management System (HRMS) using Node.js (TypeScript), MongoDB, and Bootstrap.**
- **Created a scalable embedded chart to show real-time IAP transactions for Ludo Game.**
- **Built a dashboard to monitor player data and performance.**
- **Worked on the Season Pass feature for Ludo King.**
- **Developed and maintained APIs for a Coupon System and League System in Ludo King and Carrom King.**
- **Implemented Redis caching for better performance and optimized database queries.**
- **Built microservices using Golang for improved scalability and performance.**

GLOBAL LT, Inc.

Senior Software Developer (07/2016 - 02/2022)

- Developed multiple projects, including a Task Management Web App and a Personal Portfolio Website.
- Built an HRMS for Global LT using the MERN stack.
- Created and maintained scalable backend and frontend systems.
- Developed and maintained a PHP and MySQL-based HRMS for Gametion Technologies.
- Built a Golang-based automated invoice generation and reconciliation system.
- Developed Golang APIs for handling real-time user data synchronization with third-party applications.
- Designed and implemented high-performance APIs in Golang using the Gin framework.
- Worked with Echo and Revel frameworks to develop microservices for various backend operations.
- Developed a logging and monitoring system using Prometheus and Grafana for Golang services.
- Optimized SQL queries and implemented database migrations using GORM.

TECHNICAL SKILLS

Programming Languages & Frameworks:

JavaScript, Node.js, TypeScript, Nest.js, React.js, React Native, Angular, Django Ninja, Svelte, PHP, Next.js, GraphQL, Vue.js, HTML5, Python, C, C++, Golang (Gin, Echo, Revel)

AI & ML Technologies:

OpenAI, LLaMA, Computer Vision, NLP, Data Training, Generative AI, AI-powered Automation

Cloud & DevOps:

AWS, GCP, Azure, Docker, Kubernetes, CI/CD, Terraform, Ansible

Databases & Storage:

MongoDB, PostgreSQL, MySQL, Firebase, Redis, Elasticsearch

Messaging & Streaming:

Kafka, RabbitMQ, WebSockets, GraphQL Subscriptions

Monitoring & Logging:

Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana)

Operating Systems:
 Windows, Linux, UNIX, macOS

Testing:
 Manual Testing, API Testing, Mobile Testing, Automation Testing, Database Testing

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EDUCATION

- **MCA – University of Mumbai (SIES) (2018 - 2021)**
- **BCA – Amity University Mumbai (2015 - 2018)**

CERTIFICATIONS & TRAINING

- **RHCSA - Red Hat Certified System Administrator**
- **MTA - Microsoft Technology Associate: Security Fundamentals**
- **Python - Programming for Everybody**
- **GCC-TBC - Government Certificate in Computer Typing**
- **MS-CIT - Microsoft Office (Word, Excel, PowerPoint, etc.)**
- **MERN Stack - The Complete Guide (incl. Redux, Nest.js, Next.js)**

SOFT SKILLS

- **Time Management**
- **Communication**
- **Problem Solving**
- **Leadership**
- **Teamwork**
- **Analytical Abilities**

LANGUAGES

- **English**
- **Hindi**
- **Marathi**

- **Tamil**
- **Spanish (Level 1)**

EXTRACURRICULAR ACTIVITIES

- **Participated & volunteered for Pixels (SIESCOMS College Festival) (2019-2020).**
- **Attended a National Conference Session on Machine Learning (2019).**
- **Volunteered for Aminova (Annual Inter-Collegiate Fest, Amity University) (2017-2018).**

DECLARATION

I hereby declare that the information furnished above is true to the best of my knowledge.