SUHAS PALANI

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EDUCATION

Illinois Institute of Technology, Chicago, IL   Aug 2023 - May 2025
Master of Science, Computer Science, GPA 3.60

Visvesvaraya Technological University, Bengaluru, India   Aug 2019 - Jul 2023
Bachelor of Engineering, Computer Science, VTU, GPA 3.60

WORK EXPERIENCE

SOFTWARE ENGINEER INTERN
Hamilton Digital Assets, Chicago, IL   Oct 2024 – Dec 2024
- Architected authentication infrastructure using MongoDB, Kafka, and Keycloak within a microservices architecture, supporting high-traffic apps, ensuring reliability, and optimizing security, resulting in a 40% reduction in vulnerabilities with senior engineers.
- Crafted React/React Native apps with GraphQL integration, improving load times by 20% and enhancing user engagement. Assisted in optimizing the CI/CD pipeline, reducing deployment cycles by 50% through build process improvements.
- Supported the development of an AI-powered chatbot solution using Node.js on Kubernetes, improving customer support response times by 30% while handling high daily queries, ensuring optimal performance and uptime across production environments.

FULL STACK SOFTWARE ENGINEER INTERN
Whiterock Technologies, Bengaluru, KA   Mar 2022 - May 2023
- Optimized website features to improve page load speed by 15%, handling 500+ daily user requests. Used Dockerized environments to simulate production loads, enhancing performance and reducing bounce rates.
- Designed a fully responsive layouts for desktop, tablet, and mobile, increasing mobile engagement by 20% and average session duration by 12%. Implemented automated visual regression testing to ensure cross-device UI consistency.
- Developed and validated front-end to back-end integrations using REST APIs, reducing data inconsistencies by 25%. Automated test scripts uncovered 8+ bugs per sprint and integrated them into CI/CD pipelines, improving product quality by 30% over three cycles.

PROJECTS

TRACKSPLITAI   Feb 2025 – June 2025
- Engineered and launched a scalable microservices ecosystem of 7 independent services using FastAPI, Docker, and Kubernetes, achieving 99.9% system reliability. Implemented an event-driven backend with RabbitMQ and MongoDB Atlas, ensuring data consistency and integrating Google Gemini API for AI-driven expense splitting, reducing manual tracking time by 80%.
- Delivered a full-stack solution featuring a React/TypeScript frontend and JWT-secured backend, supporting real-time expense tracking, group management, and Stripe payments. Established a CI/CD pipeline with Docker Compose and Kubernetes for automated cloud deployment, tested with 100K fake transactions and 20 concurrent users.

NUTRITRACKAI (Open Source)   Apr 2025 – May 2025
- Pioneered an AI assistant using OpenAI GPT APIs and MongoDB to extract structured nutrition data from voice inputs, handwritten meal logs, and natural language queries, reducing manual food tracking time by 80% for health-conscious users.
- Collaborated with a data science expert to implement advanced NLP preprocessing and prompt engineering techniques, achieving 95% data extraction accuracy with consistent recommendations (calories, macros, allergens) across diverse dietary patterns.

REAL-TIME INSTAGRAM ANALYTICS DASHBOARD   Feb 2025 – Apr 2025
- Built a real-time influencer analytics dashboard for marketing teams using Kafka, DynamoDB, and Vue.js with microservices architecture, enabling performance tracking and reducing campaign analysis time by 30%.
- Implemented scalable scraping infrastructure via Apify with exponential backoff retries and adaptive rate limiting, achieving 99% uptime while processing 1,000+ influencer profiles per hour for social media agencies.

SUMMARAIZE   Apr 2024 – Sept 2024
- Developed a cross-platform app using Python Flask, Java microservices, MongoDB, and React Native for real-time video and text summarization, deployed on AWS Kubernetes with CI/CD pipelines and achieved 28% increase in mobile user engagement.
- Led end-to-end development of 25+ REST endpoints with integrated AI chatbots, using natural language queries for lecture reviews and meeting notes. The project earned recognition at OraHacks and TikTok Tech Jam, competing against 600+ teams.

SKILLS

- **PROGRAMMING LANGUAGES**: Java | C++ | C# | Python | SQL | Go | TypeScript | JavaScript | HTML | CSS
- **FRAMEWORKS & LIBRARIES**: FastAPI | Flask | Django | React | Redux | Angular | Node.js | GraphQL | Vue.js | .NET
- **BIG DATA TECHNOLOGIES**: Kafka | Cassandra | PySpark | Hadoop | Spark Streaming | Apache Flink
- **DATABASES & TOOLS**: PostgreSQL | MongoDB | Snowflake | Redis | Firebase | DBT Labs | Git & GitHub | Postman
- **CLOUD, DEVOPS & INFRASTRUCTURE**: AWS | GCP | Azure | Docker | Kubernetes | CI/CD pipelines | Jenkins
- **ARCHITECTURE & DESIGN**: Microservices | RESTful API Design | API Gateways | Scalable Systems
- **OBSERVABILITY & SECURITY**: Grafana | New Relic | Keycloak

HONORS AND ACHIEVEMENTS

- Graduate Teaching Assistant, Software Project Management   Aug 2024 – Dec 2024
- Top 12 Finalist, TikTok Tech Jam 2024 – Recognized for developing a scalable backend system from 600+ teams.   Aug 2024
- Winner, OraHacks 2024 – Led an AI mobile app with text-to-video/audio news, voted top solution.   Apr 2024
- Published Paper: "API Contract Driven Testing," Int'l Conference on Advanced Engineering & Technology   Jun 2023