

SUHAS PALANI

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SUMMARY

Full-Stack Engineer with 3+ years of experience building scalable microservices and AI-driven platforms. Expertise in Python, Node.js, Next.js, and Azure/AWS. Proven track record of improving system performance by 30% and automating workflows to reduce manual effort by 90%. Award-winning developer (TikTok Tech Jam, OraHacks) passionate about driving innovation in AI, automation, and DevOps within high-impact engineering teams.

SKILLS

- LANGUAGES:** Go | Python | Java | JavaScript/TypeScript | SQL | C# | HTML/CSS
- FRAMEWORKS:** Spring Boot | Hibernate | Node.js | React | Angular | Flask | FastAPI | .NET Core | GraphQL | Next.js | Django
- CLOUD & DEVOPS:** Kubernetes | Terraform | AWS | GCP | Azure | Docker | Jenkins | CI/CD Pipelines
- DATABASES & MESSAGING:** PostgreSQL | MySQL | MongoDB | Redis | DynamoDB | Kafka | RabbitMQ
- AI & DATA TOOLS:** TensorFlow | OpenAI APIs | Apache Spark | Hadoop | Flink | NLP | GPT Integration
- TOOLS & MONITORING:** Git | Postman | Swagger | Keycloak | JMeter | Selenium | Jira | New Relic
- CONCEPTS:** Microservices | Event-Driven Architecture | TDD | Agile | SDLC

WORK EXPERIENCE

- FULL STACK DEVELOPER** – Tundra Technical Solutions, Chicago, IL Nov 2025 - Present
- Led end-to-end development of an AI-powered customer support chatbot using Next.js, LangGraph, OpenAI modern APIs.
 - Designed a RAG-based backend with Pinecone, boosting recommendation relevance by 45% and reducing LLM hallucinations.
 - Built AI-driven customer support workflows generating Jira tickets, helping internal teams resolve customer issues faster.
 - Delivered production-ready application on Azure, reducing customer support workload by 40% across enterprise teams globally.
- SOFTWARE ENGINEER INTERN** – ONEBIT, INC. Aug 2025 – Nov 2025
- Built an idempotent ETL pipeline for 2,000+ clients, using distributed locking for data consistency and no duplicates.
 - Developed a transfer detection service that pairs internal transfers, shielding 15% of transactions from expense misclassification.
 - Implemented a double-entry ledger system ensuring 100% transactional balance and an immutable financial audit trail.
 - Created daily reconciliation to automatically confirm 99.8% cash balance accuracy, minimizing financial drift risk.
- FULL STACK SOFTWARE DEVELOPER** - Budhhi Technologies, (Non-profit Organization, Volunteer) Jan 2025 – Aug 2025
- Built AI matchmaking system using Python and TensorFlow, increasing match accuracy by 30% across 500+ profiles.
 - Designed automated NDA platform on Node.js and AWS Lambda, cutting legal review times by 40% effectively.
 - Delivered responsive React/Redux applications with PostgreSQL, improving user engagement by 25% and page load efficiency.
 - Deployed containerized AWS infrastructure with Docker, ensuring 99.9% uptime and enhanced system scalability.
- SOFTWARE ENGINEER INTERN** - Hamilton Digital Assets, Chicago, IL Oct 2024 – Dec 2024
- Developed secure auth microservice using MongoDB, Kafka, and Keycloak, minimizing security flaws and downtime by 40%.
 - Streamlined CI/CD automation pipelines, accelerating release cycles by 50% and improving developer productivity across teams.
 - Built performant React and React Native apps with GraphQL APIs, enhancing UI speed and data delivery efficiency.
 - Launched AI chatbot using Node.js and Kubernetes, reducing customer response delay by 30% across multiple support channels.
- FULL STACK SOFTWARE ENGINEER INTERN** - Whiterock Technologies, Bengaluru, KA Mar 2022 - May 2023
- Improved website throughput by 15% using Dockerized load testing, handling 500+ concurrent daily requests seamlessly.
 - Created adaptive UI layouts for multiple devices, growing mobile traffic by 20% and session duration by 12%.
 - Integrated REST APIs between frontend and backend, eliminating 25% of data errors during multi-platform synchronization.
 - Automated QA testing within CI/CD pipelines, detecting 8 critical bugs per sprint and improving product quality consistently.

EDUCATION

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

PROJECTS

- TRACKSPLITAI** Feb 2025 – Jun 2025
- Architected a 7-service FastAPI ecosystem using Terraform to provision AWS EKS clusters, achieving 99.9% uptime.
 - Designed event-driven backend integrating RabbitMQ, MongoDB, and Gemini API for AI-based expense automation workflows.
 - Built secure React/TypeScript interface with JWT auth and Stripe payments, supporting seamless multi-user real-time tracking.
 - Automated CI/CD deployments via Kubernetes clusters, validated for 100K transactions under heavy concurrent user loads.
- MEDIBOT SCHEDULER** Apr 2025 – May 2025
- Developed Spring Boot AI chatbot backend automating patient support workflows, cutting manual ticket volume by 40%.
 - Implemented Apache OpenNLP for intent recognition, enhancing natural language understanding and query accuracy levels.
 - Managed 1,000+ monthly queries efficiently, achieving faster resolutions and improved satisfaction among clinic users.
 - Delivered optimized conversation routing pipeline, reducing agent workload and accelerating average response time by 40%.
- SUMMARAIIZE** Apr 2024 – Sept 2024
- Built cross-platform Flask and React Native app, increasing content engagement and retention by 28% across mobile users.
 - Deployed summarization microservices on AWS Kubernetes, achieving stable real-time performance with continuous CI/CD.
 - Created and integrated 25+ REST endpoints, enabling dynamic AI chat for news summarization and meeting insights.
 - Earned recognition at OraHacks and TikTok Tech Jam (top 600+ teams) for innovation in AI-driven mobile solutions.

HONORS AND ACHIEVEMENTS

- 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
- Outstanding contribution for Department of Computer Science at university level May 2023