

DEEPTHA THEYYAR MAALOLAN

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SUMMARY

Software Engineer with 3+ years of experience, developing scalable web applications. Masters in Computer Science. Proficient in Python, Java, and JavaScript, with expertise in RESTful APIs, microservices, cloud services, and database management

PROFESSIONAL EXPERIENCE

Software Engineer, RebeccaEverlene Trust Company | SF, CA

Aug '24 - Present

Skills – Python, Node.js, Typescript, React, AWS, Docker, MySQL, Salesforce, REST API, GraphQL

- Lead Developer, managing a team of 8 to automate the volunteer tracking system by integrating 10+ cloud-based SaaS platforms
- Architected and deployed an ETL pipeline using AWS, increasing data accuracy, and reducing processing time by 43%
- Integrated Salesforce to synchronize 15,000+ volunteer records monthly, utilizing APEX code to decrease data entry errors by 40%

Software Engineer, DemandCapture | NYC, NY

Jan '24 - May '24

Skills – Python, Node.js, TypeScript, React, AWS, MongoDB, PostgreSQL, JSON, REST API, LLM, GenAI

- Engineered a Sales Co-Pilot with a personality insights feature and a prospect matching algorithm, enhancing engagement and accelerating the sales cycle by 55%, while increasing lead conversion rates by 25% and reducing prospecting time by 20%
- Spearheaded CI/CD pipelines with Docker, reducing deployment times by 40% and improving team efficiency by 50%
- Optimized cloud infrastructure, improving system performance and reducing downtime by 30%, handling upto 1 million API requests

Software Engineer, Petavue Inc | Lewes, DE

Jun '23 - Dec '23

Skills – Python, Node.js, TypeScript, React, AWS, MongoDB, PostgreSQL, JSON, REST API, LLM, GenAI

- Engineered an AI-driven data orchestration platform delivering insights 10x faster than traditional tools and integrating with over 10+ Go-to-Market tools, which enhanced decision-making and team performance
- Spearheaded the development of tools for NLP, SQL query construction, vector searches, code generation, analytics, and output formatting using prompting techniques, enhancing data efficiency by 60%
- Enhanced SQL query performance by fine-tuning LLM models, achieving a 20% reduction in query execution times

Software Engineer, ZoomInfo Inc (Nasdaq: ZI) | Chennai, India

Aug '20 - Aug '22

Skills – Python, Java, Node.js, Typescript, JavaScript, MongoDB, AWS, Microsoft Azure, Redis, REST API

- Led the development of personalized chat for Slack and MS Teams, enabling sales and marketing to engage directly with qualified website visitors, achieving 90% adoption
- Built a communication platform microservice to enhance distribution and engagement across all ZI products, resulting in top-line growth and increased cross-selling conversion from 5% to 23%. Received accolades and appreciation from CXOs
- Built an OAuth Microservice for secure user authentication and authorization, enabling seamless single sign-on (SSO) across integrated platforms, improving user experience and security compliance
- Developed a notifications microservice using Kafka for real-time messaging, enabling users to set up and receive automated alerts in Slack and MS Teams, thereby increasing the sales rate by 30%
- Pioneered the integration of CRMs and MAPs (Salesforce, Zoho, HubSpot, Marketo) with OAuth for ZI Chat, significantly increasing adoption in the enterprise and SMB markets, and driving \$15,000 in revenue per customer
- Implemented an ETL data pipeline using Airflow, improving ROI tracking accuracy by 40% and enhancing customer retention by 65%
- Migrated microservices from AWS to GCP, reducing operational costs while supporting concurrent job processing for 1,000+ tasks

PROJECTS

Iris | Python, Next.js, React, OpenAI Whisper, EasyOCR, Gemini, GCP, Streamlit, LLM, GenAI

Jul '24

- Led 3 people to build a real-time TikTok video analysis tool using OpenAI Whisper for speech-to-text, EasyOCR for text extraction, and automated sanitization with audio beeping and text blurring
- Fine-tuned the Google Gemini 1.5 Pro model for content analysis, achieving 85% accuracy in detecting PII and offensive language

Pixie AI | Next.js, Python, Gemini, GCP, Hume API, Django, MongoDB, LLM, GenAI

Jun '24

- Led a team of 4 developers in building an AI-driven patient care system that automates pre-visit check-ins and prioritizes cases using tone and sentiment analysis through custom API integrations
- Applied RAG with MongoDB to store and analyze patient data, generating embeddings for vector search and improving case matching by 90%. Won Best Use of Unstructured.io at the MongoDB GenAI Hackathon with AWS

TECHNICAL SKILLS

Programming: Python, Java, JavaScript, Nodejs, Typescript, React, HTML, CSS

Database: MongoDB, S3, PostgreSQL, Singlestore, DynamoDB, MySQL, Redis, Snowflake, Vector DB, PL/SQL

Libraries/Framework/Tools: Express, Django, Flask, REST API, FAST API, Redis, GraphQL, JSON, Kafka, Docker, Git, CI/CD, Datadog

Cloud Technologies: Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP)

Development Practices: Full-stack development, CI/CD, Automation, TDD, Design Patterns, Agile, SDLC, SOLID, and Code Reviews

EDUCATION

Masters in Computer Science - New Jersey Institute of Technology | 4.0/4.0

Sept '22 - May '24

Bachelors in Information Technology - Anna University | 8.32/10

Jul '16 - May '20