GOWTHAM CHANDRASEKARAN | GENERATIVE AI | FULL STACK DEVELOPER | SOFTWARE ENGINEER

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SUMMARY

For 4 years, I've built production-ready applications that don't just run — they think. Combining full-stack expertise (React, Angular, Node.js, Python-FastAPI) with Generative AI in RAG and Agentic AI, I deliver solutions that are intelligent, scalable, and impactful.

WORK EXPERIENCE

SOFTWARE ENGINEER – FULL STACK & GENAI | THEREAFTER INC.   AUG 2024-PRESENT

Managed the full lifecycle of AI-powered solutions, collaborating with cross-functional teams to streamline end-of-life planning and preserve legacies.

Generative AI Development
- Built RAG chatbot with Langchain.js using Llama 3.3 70B, BGE embeddings and Qdrant — boosted query speed by 40%.
- Eliminated 100% of sensitive data leaks by integrating Presidio PII masking and LLM guardrails.
- Developed GPT-4 podcast interviewer with STT & TTS — boosted engagement session time by 35%.

Full-Stack Development & Cloud Engineering
- Built scalable Node.js microservices with React frontend; applied lazy loading to cut load times by 30%.
- Integrated AWS Cognito with Node.js APIs to manage user sign-up, sign-in, and access control.
- Architected event-driven notifications with SendGrid, Twilio & CRON — reduced manual follow-ups by 80%.
- Automated AWS deployments using CodePipeline; integrated EC2, S3 & CloudWatch for seamless monitoring.
- Strengthened AWS security with IAM policies, encryption, and vulnerability fixes — passed all audits with zero issues.
- Led a 5-member team in sprint planning and risk management, increasing sprint velocity by 20% and ensuring quality and scalability of AI solutions.

SOFTWARE ENGINEER – FULL STACK & GENAI | JAUNT   AUG 2024-NOV 2024

Managed a GenAI-driven travel app project, collaborating with cross-functional teams to personalize itineraries and guide users through contextual audio, while communicating updates to stakeholders.

Generative AI Development
- Built a RAG chatbot with LangChain, OpenAI embeddings, and cross-encoder reranking — boosted content relevance by 25%.
- Improved contextual reliability of travel guides using role-based prompts and automated evaluation with LLM-as-a-judge.
- Integrated metadata filters for smarter retrieval — increased precision of recommendations and reduced irrelevant results.

Full-Stack Development & Data Engineering
- Developed the backend in FastAPI, integrating retrieval pipelines and ensuring low-latency responses for real-time user queries.
- Built Selenium-based web scrapers to unify multi-site location data — expanded coverage of tourist spots.
- Applied DBSCAN clustering to group related locations — enabled deduplication and ensured consistency.

SOFTWARE ENGINEERING ASSISTANT | SAN JOSE STATE UNIVERSITY   DEC 2023 – JUL 2024

Developed AI-driven tools and optimized the university web site for academic operations and digital marketing.

Generative AI Development
- Built a Streamlit chatbot with OpenAI + SQL — enabled staff to query databases in natural language.

Web Analytics & Optimization
- Leveraged Google Analytics to analyze audience, acquisition, and user behavior — provided insights that informed content improvements.
- Utilized Siteimprove to detect and fix broken links — improved website reliability and user experience.

SOFTWARE ENGINEER | TATA CONSULTANCY SERVICES   MAY 2019 – MAY 2021

Specialized in building interactive dashboards and responsive UIs to improve monitoring and user experience.

Full-Stack Development
- Built a React dashboard for server metrics with real-time KPIs and dynamic filters — improved monitoring efficiency.
- Optimized performance with lazy loading, Redux, and code-splitting — reduced load time by 30%.
- Integrated REST APIs with backend services — ensured seamless real-time updates.
- Strengthened code quality with reviews, best practices, and Jest/Enzyme testing — reduced production bugs.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript (ES6+), TypeScript, HTML5, C, C++
Frameworks & Frontend: React, Next.js, Angular, Redux, Tailwind CSS
Backend & APIs: Node.js, Nest.js, Flask, FastAPI, REST, GraphQL, API Design, Microservices
GenAI Tools: LangChain, LLMs (GPT-4, Llama 3.3, Claude), Embeddings (OpenAI, BGE), Vector DBs (Qdrant, Pinecone, Chroma)
DevOps & Cloud: AWS (EC2, S3, RDS, Lambda, SQS, ECS, API Gateway, Cognito, CloudWatch, Bedrock), Docker, Kubernetes, Jenkins, Git,

CI/CD Pipelines (AWS CodePipeline)
Databases: PostgreSQL, MySQL, MongoDB, Cassandra, Oracle, DynamoDB

EDUCATION

M.S. Computer Science, San Jose State University | GPA: 3.92/4.00   **Aug 2021 – Dec 2023**
B.E. Computer Science & Engineering, Anna University | GPA: 4.00/4.00   **Aug 2015 – Apr 2019**