NITHISH CHANDRASEKARAN

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SUMMARY

Full-stack SWE specializing in cloud-native finance and AI platforms. Reduced application latency by 30% and cut infrastructure costs 40% by refactoring FastAPI/Django backends and react micro-frontends on AWS (Lambda, EC2, RDS, DynamoDB). Architected secure CI/CD pipelines and RAG-powered LLM services—own design through deployment to ensure fast, reliable, cost-efficient releases.

EDUCATION

Master of Science in Software Engineering Systems   May 2025
Northeastern University, Boston   *GPA: 3.7*
Bachelor of Technology in Information Technology   May 2022
Sri Krishna College of Technology, India   *GPA: 3.5*

SKILLS & CERTIFICATIONS

Programming Languages: C, C++, C#, Python, Java, JavaScript, TypeScript, SQL, Shell
Front-End: React JS, Redux, State Management, Providers, Vue JS, HTML5, CSS3/Sass, Bootstrap, jQuery, Responsive Design, Webpack 5 modular federation
Back-End & APIs: Node JS, Next JS, Express JS, Django, Flask, FastAPI, Java Spring Boot, RESTful APIs, OAuth 2.0, Passport JS, Microservices
Cloud & DevOps: AWS (EC2, S3, Lambda, RDS, DynamoDB, CloudFormation, Batch), Azure, Docker, Kubernetes, Terraform, Git, Jenkins, Continuous Integration / Continuous Deployment, Atlassian (Jira, Confluence), Agile/Scrum
Databases: PostgreSQL, MySQL, SQL Alchemy, MongoDB, Redis, Pinecone (Vector DB), Arango DB (Graph)
Testing & Quality: Saas, Gulp, Yarn, Unit & Integration Testing, SonarQube, Code Coverage, TDD, Jest
AI / ML & LLMs: Prompt Engineering, OpenAI GPT-4, Claude, DeepSeek, Lang Chain, RAG, cu Graph, Hugging Face, Fine-Tuning, Knowledge Retrieval

WORK EXPERIENCE

Software Engineer   *Applied Data Finance Private Limited, India*   Jun 2021 - Aug 2023
- Modernized React-Django stack, minimizing load time by 50% and bounce rate by 35%, boosting engagement
- Led React migration, compressing initial load time by 2.1s and cutting costs by 40%, and conducted cross-team workshops.
- Integrated Flask microservices with AWS (Lambda, S3, RDS), trimming document processing latency by 68% and scaling to 400K+ users.
- Introduced Redis caching, reducing PostgreSQL load by 42%, doubling concurrent sessions and enhancing platform scalability.
- Streamlined Spring Boot APIs, decreasing transaction latency by 35%, elevating UX and authored API and deployment documentation.
- Engineered automated config sync and containerized CI/CD pipeline, delivering zero-downtime releases and shortening QA cycles by 75%.

Flutter Developer Intern   *8 One Technologies, Remote*   Feb 2021 - May 2021
- Shipped a cross-platform application (Android, iOS), ensuring **responsive UI design across 95%** of target devices
- Mentored team members, enhancing documentation and unit testing, increasing **code coverage from 60% to 85%**
- Maximized state management & lazy loading; composed a performance-tuning guide - shrinking load time 10% and memory usage 15%.

PROJECTS

HPC-Accelerated Market Prediction - Project Link   Sep 2024 - Dec 2024
- Leveraged HPC clusters, GPU acceleration, and parallel processing cut model training time by over 50%, accelerating experimentation speed and throughput.
- Analyzed 50 K+ daily articles with NLP, surfacing three sentiment signals tied to intraday price moves.

Atlee AI - Personalized PDF Assistant - Project Link   Feb 2024 - Apr 2024
- Optimized prompt design, document chunking, LLM hallucinations by 40% and improve answer accuracy
- Crafted Streamlit PDF UI and Chrome extension, shrinking time-to-insight 25% via personalized tracking.

Share Quill - Project Link   Oct 2023 - Dec 2023
- Architected Express/MongoDB backend, sustaining 160 ms responses under 20 concurrent users.
- Deployed JWT auth, role-based ACL, Stripe payments, blocking unauthorized hits 30%, lifting conversions 25%.

ACHIEVEMENTS

Best Engineer Award - 1st Prize, Dept. of CS**, SKCT**   May 2019