

NITHISH CHANDRASEKARAN

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SKILLS & CERTIFICATIONS

Programming Languages: Python, Java, JavaScript, TypeScript, SQL, Shell Scripting, C++, C#, C
Frontend Development: React.js, Redux, Vue.js, HTML5, CSS3, Sass, Bootstrap, jQuery, Responsive Design, Webpack
Backend Development: Node.js, Next.js, Express.js, Django, Flask, FastAPI, Spring Boot, RESTful APIs, Microservices
Cloud & DevOps: Amazon Web Service (AWS), Microsoft Azure, Docker, Kubernetes, Terraform, Jenkins, CI/CD
AWS Services: EC2, S3, Lambda, RDS, DynamoDB, CloudFormation
Databases: PostgreSQL, MySQL, SQL Alchemy, MongoDB, Redis, Pinecone (Vector DB), Arango DB (Graph DB)
Testing & Quality Assurance: Jest, Pytest, JUnit, Unit Testing, Integration Testing, SonarQube, Test-Driven Development, Penetration Testing, Vulnerability Assessment
AI & Machine Learning: OpenAI GPT-4, LangChain, Retrieval-Augmented Generation (RAG), Hugging Face, Prompt Engineering, Fine-Tuning
Development Tools: Git Version Control, Agile Methodology, Scrum Framework, Jira, Confluence, Code Review
Generative AI Fundamentals Certification - <https://credentials.databricks.com/cfe9af90-78b7-4ffe-b7d0-da9baefb63f3>

WORK EXPERIENCE

APPLIED DATA FINANCE	Chennai, India
Software Engineer <ul style="list-style-type: none">Led React modernization initiative reducing page load time from 4.2s to 2.1s (50% improvement) and bounce rate by 35%Spearheaded technical workshops instructing 15+ developers on modernizing legacy systems, resulting in the successful migration of 1000+ lines of code and a 40% reduction in infrastructure costsArchitected Flask microservices supporting \$1.57 billion in total loan originations, decreasing document processing latency by 68%Implemented Redis caching strategy for credit assessment platform, reducing PostgreSQL load by 42% and supporting high-volume loan processingDesigned automated CI/CD pipeline following Lean Six Sigma methodology, achieving zero-downtime deployments and reducing QA cycles by 75%	Jun 2022 - Aug 2023
Software Engineer Intern <ul style="list-style-type: none">Optimized Spring Boot APIs, improving transaction latency by 35% and documented solutions for team knowledge sharingCollaborated with senior engineers to resolve production incidents, reducing system downtime by 30% through effective communicationAnalyzed and presented findings on 20+ performance issues using Kibana, leading to 15% reduction in bug ticketsResolved 15+ high-priority bugs in customer-facing modules by analyzing crash reports and system logs, improving rating by 0.5 stars within one sprint	Jun 2021 - May 2022
8 ONE TECHNOLOGIES	Remote
Flutter Developer Intern <ul style="list-style-type: none">Shipped cross-platform application for Android and iOS, ensuring responsive UI and UX design across 95% of target devicesMentored team members and enhancing documentation, increasing code coverage from 60% to 85%Maximized state management & lazy loading; shrinking load time 10% and memory usage 15%	Feb 2021 - May 2021

PROJECTS

HPC-Accelerated Market Prediction - Project Link <ul style="list-style-type: none">Leveraged HPC clusters, GPU acceleration and parallel processing cut model training time by over 50%, accelerating experimentation speed and throughputAnalyzed 50 K+ daily articles with NLP, surfacing three sentiment signals tied to intraday price moves	Sep 2024 - Dec 2024
Atlee AI - Personalized PDF Assistant - Project Link <ul style="list-style-type: none">Optimized prompt design, document chunking, LLM hallucinations by 40% and improve answer accuracyCrafted Streamlit PDF UI and Chrome extension, shrinking time-to-insight 25% via personalized tracking	Feb 2024 - Apr 2024
Share Quill - Project Link <ul style="list-style-type: none">Architected Express/MongoDB backend, sustaining 160 ms responses under 20 concurrent usersDeployed JWT auth, role-based ACL, Stripe payments, blocking unauthorized hits 30%, lifting conversions 25%	Oct 2023 - Dec 2023

EDUCATION

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