NITHISH CHANDRASEKARAN

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EDUCATION

Master of Science in Software Engineering Systems   May 2025
Northeastern University, Boston   *GPA: 3.7*
Relevant Coursework – Object-oriented programming with JAVA and C++

Bachelor of Technology in Information Technology   May 2022
Sri Krishna College of Technology, India   *GPA: 3.5*

SKILLS & CERTIFICATIONS

Languages/Frameworks: Python, Java, SQL, JavaScript, TypeScript
Front-end: React.js, Vue.js, Bootstrap, jQuery, HTML, CSS, Saas, Node.js, Gulp, Yarn, Webpack, Shell
Back-end: Django, Flask, Express.js, OAUTH, Passport.js, Middleware, REST APIs, Serverless Integration
Databases: SQLite, MySQL, NoSQL (Firebase, Redis), PostgreSQL
Cloud & DevOps: AWS (EC2, S3, RDS, DynamoDB, Lambda), Azure Cloud, Atlassian, Jenkins, SonarQube, Confluence, JIRA, Agile, Scrum

WORK EXPERIENCE

Software Engineer   *Applied Data Finance Private Limited, Chennai, India*   Jul 2021 - Aug 2023
- Delivered **50% faster web** application performance by implementing Django and React architecture, directly increasing user engagement metrics and **reducing bounce rates by 35%**.
- Pioneered React SPA migration that **reduced** website maintenance **costs by 40%** while cutting initial **load times** by **2.1 seconds** through code splitting techniques.
- Modernized legacy systems by replacing jQuery with React component libraries, **decreasing UI bug reports by 28%** through improved state management.
- Implemented Redis caching layer that **reduced database query volume by 42%**, enabling support for the website to **handle** 2x **more concurrent users** without infrastructure upgrades.
- Restructured Java Spring Boot APIs using MVC principles to resolve critical bottlenecks, **achieving 35% faster** transaction processing for enterprise-scale operations.
- Architected FastAPI microservice integration with AWS S3 that **reduced** document **processing latency by 68%** while maintaining e-signature workflows.
- Designed centralized configuration middleware that eliminated hours of manual updates through synchronized backend-frontend value management.
- Containerized CI/CD pipelines using Docker to achieve zero-downtime deployments and **75% faster QA cycles** through environment parity.

Flutter Developer Intern   *8 One Technologies, Remote*   Feb 2021 – June 2021
- Created 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%
- Optimized state management, **reducing load time by 10%** and **memory usage by 15%**

PROJECTS

Stock Market Prediction Using Parallel Computing and Sentiment Analysis   Sep 2024- Dec 2024
Northeastern University, Boston
- Leveraging **HPC** clusters, **GPU acceleration**, and **parallel** processing reduced model training time by over 50%
- The sentiment analysis on news articles uncovered how public opinion and news events directly impacted stock prices, providing an additional predictive layer to the model.

Atlee AI - Personalized PDF Assistant   Feb 2024 - Apr 2024
Northeastern University, Boston   *Project Link*
- Optimized LLM response quality by incorporating relevant document chunks, **minimizing hallucinations**.
- Enhanced usability by building a **simple, interactive UI** where users could upload PDFs and get insights in real time.
- Built a browser extension to **capture user interaction history** for personalized user experience

Share Quill   Oct 2023 - Dec 2023
Web Design and User Experience - Northeastern University, Boston   *Project Link*
- Crafted a full-stack rental and sharing ecommerce app using Express.js, and MongoDB with 10+ API endpoints
- Deployed backend on Heroku, stress-tested for 20 concurrent users with an average **response time of 160ms**

Web Developer   May 2020 - Feb 2021
Sri Krishna College of Technology   *Project Link*
- Developed a customized ERP system for faculty members, achieving a **10% reduction** in data entry errors
- Established access control for **three distinct user** types, ensuring secure and appropriate access across the system
- Enhanced **log tracking by 20%**, enabling administrators to gain a comprehensive view of staff activities