NITHISH CHANDRASEKARAN

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OPT – 3 years

PROFESSIONAL SUMMARY

I'm a **tech enthusiast** with over 2 years of industry experience in financial services. I specialize in **Backend (Python)** but I am a **Polyglot** Programmer, reverse engineer, and AI practitioner. A **quick learner** and **team player**, I'm always eager to take on new challenges. Outside of work, I enjoy movies, exploring new places, and collaborating on innovative projects.

SKILLS & CERTIFICATIONS

Frameworks/Libraries: Python, Cuda, SQL, Linux, Unix, Docker, Git (CI/CD), Bitbucket, Flask, Pandas, npm, Dart
Frontend: Bootstrap, jQuery, HTML5, CSS3, Saas, JavaScript, TypeScript, Node.js, Gulp, Yarn, Webpack, Shell
Databases: SQLite, MySQL, NoSQL (Firebase, Redis), PostgreSQL
ML Libraries: TensorFlow, Pytorch, Pandas, NumPy, SciPy, Keras, scikit-learn, Langchain, Matplotlib, Seaborn
ML Algorithms: Regression, Classification, NLP, Computer Vision, GPT, GAN, Gradient Boosting, Neural Networks
Tools: AWS (EC2, S3, RDS), Azure Cloud, Atlassian, Jenkins, SonarQube, Confluence, JIRA, Agile and Scrum
Python for Data Science - *NPTEL - Credential Link*

EDUCATION

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

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

EXPERIENCE

Software Engineer *Applied Data Finance Private Limited, Chennai, India* Jul 2021 - Aug 2023
- Streamlined a high-performance web application, **increased response time by 50%** with Django and React
- Implemented Micro-services and distributed computing techniques, **optimizing application workload by 2%**
- **Led project** initiatives with a focus on quality and stakeholder communication, ensuring successful outcomes

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*
- Designed a personalized PDF assistant using advanced **Retrieval-Augmented Generation (RAG)** techniques
- 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

AI and ML based crop detection Mar 2020 - Jun 2020
Research & Development Lab - Sri Krishna College of Technology *Paper Link*
- Designed an offline mobile application for crop identification with a reported **accuracy of over 85%**, utilizing advanced AI and machine learning techniques
- Integrated **geolocation tagging**, improving contextual crop data accuracy and aiding precision agriculture efforts