**NITHISH CHANDRASEKARAN**

Boston, MA | (857) 398-1391 | [nithishchandrasekaran01@gmail.com](mailto:nithishchandrasekaran01@gmail.com) | [linkedin.com/in/nithishchan/](https://www.linkedin.com/in/nithishchan/) | [github.com/NithishC](https://github.com/NithishC) | 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*](https://archive.nptel.ac.in/noc/Ecertificate/?q=NPTEL19CS59S41231487191201040)

**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*](https://github.com/Atlee-AI/Atlee---Personalized-PDF-Assistant)

* 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*](https://github.com/ShareQuill)

* 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*](https://github.com/NithishC/Erp)

* 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*](https://link.springer.com/chapter/10.1007/978-981-16-1244-2_19)

* 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