

Nitheesh Kumar N

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EDUCATION

Sri Sivasubramaniya Nadar College of Engineering

B.E in Computer Science & Engineering ; CGPA: 9.479/10

Chennai, TN

Dec 2020 - Jun 2024

Acharya Bala Siksha Mandir

Computer Science, CBSE ; Grade XII Mark: 94.6%

Puducherry, PY

Apr 2018 - Mar 2020

SKILLS SUMMARY

Languages: Java, Javascript, HTML, CSS, Python, C, C++, SQL, MongoDB, AI, ML
Frameworks: React, Angular, Node, Flask, Selenium, Scikit, TensorFlow, Keras, PyTorch
Tools: Git, Docker, Jenkins, AWS S3, JFrog Artifactory, PostgreSQL
Soft Skills: Time Management, Teamwork, Communication, Problem Solving, Leadership

EXPERIENCE

Software Engineer

Chennai, TN

Fidelity Investments

Aug 2024 - Present

- **Business Domain::** Working in the Stock Plan Services (SPS) area of financial services, delivering client-facing applications for international participants, understanding their needs.
- **Front-End Development::** As part of the digital development chapter, I build and maintain responsive, user-focused applications using Angular.
- **API Development::** I also design and implement Experience APIs in Spring Boot using Apache Camel, orchestrating calls to multiple domain APIs to deliver integrated business workflows. Improved performance and maintainability by optimizing API calls, refactoring code, and enforcing engineering best practices.
- **AI Initiatives::** Leading and contributing to AI-based initiatives as stretch projects, introducing solutions to enhance business capabilities and promote engineering excellence across development teams, leveraging AI assist tools.
- **Collaboration & Delivery::** Worked closely with cross-functional teams in an Agile environment to deliver features efficiently while maintaining high code quality.

Full Stack Engineer Intern

Remote

Fidelity Investments

Feb 2024 - Jun 2024

- **Adaptive Recommendation System:** Developed and integrated an AI/ML based recommendation system enhancing user experience and engagement for an internal web application built on Angular, Flask, and PostgreSQL.
- **CI/CD pipeline for the Tool:** Streamlined development and deployment processes by creating pipeline scripts in Jenkins-core for deployment in an AKS cluster.

Software Developer Intern

Remote

Fidelity Investments

Jun 2023 - Aug 2023

- **Web application using React & Spring MVC:** Collaborated with a fellow intern to develop a web application for externalizing automation test data to AWS S3, effectively reducing repository bulkiness.
- **Testing:** Automated test cases for a new process flow using Selenium and TestNG frameworks. And also mapped test scenarios to XRay in JIRA for automated validation via Jenkins jobs.

PROJECTS & PUBLICATIONS

Automatic Question Generation & Bloom's Taxonomy Classifier (NLP, Web Application): Engineered an NLP system with a web interface to generate questions automatically & categorize generated questions according to Bloom's Taxonomy, enhancing the accuracy of educational assessments. The same has been submitted as research work and is being reviewed for publication. Tech: Python, Tensorflow, HuggingFace, React, Django. (April 2024)

IoT Driven Smart ATM Security (Deep Learning, IoT): Proposed a Smart ATM Security System using IoT and deep learning for continuous monitoring and anomaly detection. Integrated sensors to detect physical damage, trigger alarms, and notify authorities of suspicious activities. This has also been published as research work in the Indian Journal of Natural Sciences. Tech: Python, Image processing, Raspberry Pi. (Feb 2024) [\[link\]](#)

Paper: Comparative study of Machine Learning and Deep Learning for Fungi classification: The paper discusses different methods of Machine Learning & Deep learning to classify fungi images. (June 2022) [\[link\]](#)

Paper: Automated Classification of Lung Tuberculosis using 3D Deep Convolutional Neural Networks: Worked as a Team to deploy a 3D-CNN model to classify Tuberculosis based on CT scans with the dataset provided by AICrowd. Working notes for the project were submitted as a paper. (May 2022) [\[link\]](#)

ACHIEVEMENTS

- Recognized as discipline star in Computer Science & Engineering domain by NPTEL - April 2023
- Project got sanctioned for Internally Funded Project offered by SSNCE - January 2023
- Received Academic Excellence Scholarship from SSN College of Engineering for the academic year 2021-2022
- 1st place in a National level database competition, Samhita'22 organised by MIT, Chennai. - April 2022