Adithyah Nair

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About me

I am a professional specializing in iOS application development, computer networks, web development, **security**, and **R&D** in **blockchain and IoT** technologies. In addition, **I am a team player** adept at conducting group projects with my peers. **I believe in** creating meaningful relations and bringing about a positive impact on people. I am currently working as a course assistant for the Network Security course by Professor Danny Huang at NYU Tandon's ECE department.

Education

Master of Science in Computer Science
New York University, Brooklyn — September 2024 - Ongoing

Bachelor of Technology in Computer Science and Engineering
SRM University AP, Andhra Pradesh, India — September 2020 – June 2024

Proficiencies

Tools: AWS, Tableau, MySQL, **Git**, Xcode
Databases: Pinecone, Firebase, MongoDB, CoreData
Languages: Swift, C++, Java, **JavaScript**, HTML, jQuery, **Python**
Frameworks: Node.js, Express, LangChain, TensorFlow, PyTorch

Experience

New York University (January 2025 - Current)

- **Course Assistant**: 1) Maintained and ensured the smooth operation of the Interactive Classroom System. Reviewed and verified flagged AI responses to ensure accuracy and integrity of the Virtual Tutor System. Provided student support by addressing questions related to SEED labs and general course material. Encouraged student engagement by facilitating lab assignments and coordinating follow-up in-class multiple-choice exams graded through Gradescope.

Kotak Education Foundation (July 2023 – August 2023)

- **Student Volunteer**: 1) Assessed middle school students' spoken English proficiency. 2) Taught multiple spoken English classes. 3) Conducted online seminars for high school seniors to discuss balancing their finals and college entrance exams (JEE). 4) Assisted teachers in curriculum development and the gamification of educational content.

jumpingMinds (July 2022 – August 2022)

- **iOS Application Developer**: 1) Worked as the sole iOS developer on the jumpingMinds iOS application. 2) Built a robust verification system, integrated highly dynamic and secure RESTful and GraphQL APIs. 3) Presented a near-perfect standard of iOS design through Auto Layout. 4) Translated features from the Android application to the iOS application. 5) Maintained a high degree of confidentiality while handling private repositories, **REST API** keys, and shared codebase.

Academic Highlights & Research

- **Performed website vulnerability testing using SilverBullet software + Azure VM (**Cloud Computing**)**
- Maintained the role of **Class Representative** for three consecutive years (2020-2023).
- **Patent published** with the Indian Patent Office **Application no**. **202441045762**
- MySQL database + iOS application integration with PHP: HostelAllocation (**Database Management Systems**).
- Developed a ML-based sentimental analysis application on iOS: tweetSenti (Software Engineering).
- Been an active member of **Norman** at Next Tech Lab (November 2020 – June 2024) (SRM University, AP)
- https://codeguardianlmstudio.netlify.app (CodeGuardian: Vulnerability Detector) (**On-Device AI Builders Hackathon**)
- https://quicknode-hackathon.vercel.app (NFT Marketplace with AI) (**Build On: QuickNode Hackathon Winner 2024)**
- https://avax-hackathon.vercel.app (Memeverse: Meme Coin Launchpad) (**Avalanche x MBC Hackathon Winner**)
- https://doi.org/10.1109/COMSNETS59351.2024.10427374