

NITYA RAMACHANDRAN

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OBJECTIVE

Motivated Computer Science Master's graduate with strong expertise in software development and data analysis. Seeking an entry-level role in full-stack development to apply my technical skills and creativity in building innovative solutions. Eager to contribute effectively, grow professionally, and thrive in a dynamic, team-oriented environment.

TECHNICAL PROFICIENCIES

Platforms:	Windows, Linux, MySQL, SQL Management Studio, AWS, MongoDB, Tableau
Languages & Frameworks:	Python, Django, Pytest, SQL, JavaScript, Java, SpringBoot, Junit, Mockito, JSON, XML, HTML, React, Node, Express, NoSQL, Visual Basic, R, C++,
Tools:	Virtual box, Eclipse, IntelliJ, Google Colab, AutoCAD, Adobe Photoshop, Figma, Android studio, NetBeans, Anaconda, VS Code, PyTorch, Jupyter Notebook, Wireshark
Certified Course:	MERN Stack Development by Internshala (In Progress) NoSQL Essential Training Architecture Visualization by NICT Computer Education Graphic Design Course by NICT Computer Education

PROJECTS AND RESEARCH

Crowdsourced Gaming on Twitch (Masters Project)

- **Tech Used:** Python, Twitch API, Pynput, Keyboard, Requests, TOML, GUI
- **Skills Showcased:** API integration, real-time data processing, GUI development
- **Outcome:** Successfully developed an interactive gaming experience by relaying Twitch chat input to gameplay, successfully transformed passive viewing into active participation, increasing viewer retention by 35%.

Amazon Alexa University Voice Assistant

- **Tech Used:** Alexa Skill, AWS Lambda, DynamoDB, CloudWatch
- **Skills Showcased:** Voice technology, cloud computing, database management
- **Outcome:** Developed a voice-activated assistant that streamlined academic inquiries for Rutgers students, enhancing accessibility and engagement.

Keylogger Detection System

- **Tech Used:** Python, Random Forest, Gradient Boosting, Logistic Regression, Web Scraping
- **Skills Showcased:** Machine learning, cybersecurity, data collection
- **Outcome:** Created a high-accuracy detection system using advanced machine learning, bolstering cybersecurity by effectively identifying keyloggers through robust data analysis and model accuracy scoring above 94%.

Pediatric Hospital Management System

- **Tech Used:** Java, Spring Framework, MySQL, JUnit, Mockito, HTML, CSS, JavaScript, Thymeleaf
- **Skills Showcased:** Front & Backend development, database management, RESTful API creation, unit & integration testing
- **Outcome:** Developed a comprehensive web application for managing pediatric appointments and patient records, ensuring robust functionality and code reliability through extensive testing in a collaborative environment

Impact of Covid-19 on Students' Performance (Research)

- **Tech Used:** Python, Jupyter Notebook, Linear Regression, Data Analysis
- **Skills Showcased:** Data analysis, statistical modeling, research methodology
- **Outcome:** Analyzed pandemic effects on student performance, predicting future trends.

EDUCATION

Rutgers University- New Jersey

Master of Science- Scientific Computing

2022-2024 | 3.7 GPA

Coursework: AI, Software Engineering, Database Systems, Optimization Methods, Cloud Computing, Cryptography and Computer Security, Machine Learning, Network Security, Business Analytics

Mount Carmel College, Bangalore

Bachelor's in Computer Application

2019-2022 | First Class Exemplary

Coursework: Shell programming, Web Programming, Operating Systems, Visual Basic, Data Structures, Procedural Orientated Programming, DBMS, Mobile App development, Finite Automata and Formal Languages, Algorithms, Data Warehousing, Multimedia Applications

Delhi Public School, Bangalore East

2017-2019 | Rank #1 in Computer Science

Key Subjects: C++, Data file handling, Object orientated concepts, Networking, Boolean algebra, SQL