

# Nithish Kumar Megarajan

## Graduate Software Engineer from the University of Strathclyde

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### Summary

A recent graduate of Software Engineering from the University of Strathclyde, I bring a blend of academic excellence and practical industry experience. My deep understanding of mathematics and logic, paired with my enthusiasm for software development, positions me to contribute effectively to innovative tech solutions. I am committed to pushing the boundaries of technology and delivering impactful results.

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### Projects

#### Boston Metro System – (JAVA) [GitHub]

- This project stands as an intricate Java-based endeavour, meticulously crafted as an integral component of the CS 308 curriculum.
- Our collaborative team undertook the challenge of conceptualising and actualising a simulation centred around the intricacies of the Boston Metro System.
- Our emphasis lies in faithfully emulating the System's multifaceted functionalities, intricate route networks, and dynamic responses within a spectrum of contextual variables.

#### Algorithmic Trading with Machine Learning [GitHub]

- Developed algorithmic trading strategies using machine learning, enhancing market opportunity identification and trading profitability.
- **Approach & Impact:** Utilized unsupervised clustering for optimized portfolio allocation, Twitter sentiment for trend forecasting, and GARCH models for intraday volatility predictions, significantly outperforming SP500 benchmarks.

*ALL OTHER PROJECTS CAN BE VIEWED IN MY GITHUB\**

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### Experience

#### **SMT, INDIA (REMOTE)**

*Software Engineer (Intern)*

- Streamlined user support by responding to inquiries within Web Apps and CRM using AI, reducing reliance on human agents.
- Enhanced system efficiency by designing Python scripts and stored procedures, optimising data retrieval and processing.
- Applied LSTM recurrent neural networks to classify user input, elevating analytical skills and contributing to responsive AI-driven interactions.

I garnered over four years of valuable experience in the hospitality sector in Glasgow during my University tenure, skilfully balancing academic pursuits with part-time engagement to meet my daily requisites.

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### Skills

Java, J2EE Technologies, Python, Django, JavaScript, TypeScript, React, MySQL, MongoDB, AWS, RESTful, Spark, Git, GitLab and Agile.

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### Education

#### **University OF Strathclyde — Glasgow, UNITED KINGDOM**

Bachelor of Science: Software Engineering

Sep 2019 – May 2024

- Industrial Placement in Year 4 of the Degree.

**Key Courses:** Algorithms, Data Structures, Software Development Process, Design Pattern, Databases, Web Programming & Agile Methods.