Varunalingam V

App Developer

I am an aspiring student from NITT, seeking a remote internship to utilize my technical skills to gain professional experience in the field of App Development and explore my career options in the field of Computer Science and Engineering.

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- English | Tamil | Hindi

Internship Experience

Morgan Stanley
May – Jul 2022
Technology Analyst Intern
Java | Spring Boot | Gradle | Apache Kafka

- I have worked as intern on Morgan Stanley's Traders and FX team's core products.
- This project provides real time ticking currency rates to traders. About 20% of Morgan Stanley's Trade profits has come from the use of this application.
- I have debugged and solved an important production issue which was reducing the efficiency of trades and directly impacting the profits.
- I have used concepts such as multi-threading, batch processing, batch messaging and queuing, and Event Store management.

Education

National Institute of Technology Tiruchirappalli
2019 – Present

B. Tech. Instrumentation and Control Engineering
(Expected to Graduate in 2023)

- CGPA: 7.96
- Major Courses: Machine Learning for Engineering Applications, Big Data Analytics, Web Technology
- Clubs: Delta Force (Programming Club), Social Council - NITT

Minor in Computer Science and Engineering
(Expected to Complete in 2023)

- Course Work: Data Structures and Algorithms, Database Management Systems, Operating Systems

Technical Skills

Programming Languages

Java | Kotlin | Python | JavaScript | TypeScript | C# | C++ | Rust

Platforms, Stacks, Engines, Tools

Android | React | Django | Spring Boot | MySQL | MongoDB | Unity | Blender | ML using Scikit-Learn | PostgreSQL | Diesel | Phaser | Hadoop | Apache Kafka | Gradle

Other Software and Technologies

Office 365 | Photoshop | Git | HTML | CSS | Tina | Arduino | MATLAB

Operating Systems

Linux | Windows

Special Skills

Debugging | Testing | Problem Solving | Leadership | Teamwork | Creative

Projects

Attack on Robots
Q4 2021 – Q1 2022
Lead Full Stack Developer
React - Redux | Phaser | JavaScript • Diesel | PostgreSQL | Rust

- Lead the development of a City Planning and Defense Simulation Multiplayer Game for Pragyan 22'.
- Which had created 170+ new user registrations for Pragyan.
- The game had an isometric gameplay with modular architecture, multiple game modes, optimized simulators.

Kaval Arann
Q4 2020
App Developer
Android | Kotlin • Spring Boot | MongoDB | Java

- An Android App developed by Delta Force, NITT, for the Department of Police, Tiruchirappalli. (Patent Pending)
- The major features are recording of public's requests and filing FIR, integration of existing services, contact information, attendance scheduling and management based on Location.

Beer Factory
Q4 2020 – Q1 2021
Full Stack Developer
React Semantic UI | JavaScript • Django | MySQL | Python

- A Resource Management Game for Pragyan 21', which had over 400 participants.
- The major features are Duels (multiplayer matchmaking part connected using sockets), Daily Challenges, in-game ads.

Gear Up
Q3 2020
Open-Source Game Development
Unity | C#

- Hill Climb Racing Game with AI racing mode, seasons, progressive change using 2D Lighting and Global Illumination

Positions and Responsibilities

Developer
2020 - 2022
Delta Force, NITT (Programming Club)

- We develop and maintain Apps and Programs for fests and events conducted in NITT like Festember, Pragyan
- Coordinate with teams, work on various projects, Ideate and Collaborate for new open-source projects

Manager, Design Lead
2020 – 2022
Social Council, NITT

- Design Posters for Social Awareness Events held by NITT.
- Volunteer Organize and Coordinate Admin with Social Clubs.

Student Pupil Leader
2016 - 2017
Velammal Vidhyashram

- Equivalent to Student Body President.
- Lead and Support Student Ideas, Coordinate with Admin, manage Budgets for Fests, Sports and Student held Events