Varunalingam V

Software Developer

I am a young aspiring software developer of 21 years old, from NITT, seeking a career opportunity to utilize my technical skills and gain professional experience in the field of Software Engineering and Development.

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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 an 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 have come from the use of this application. I have used concepts such as multi-threading, batch processing, batch messaging and queuing, and Event Store management.

Global Groupware Solutions Ltd.
Sep 2022 – Jun 2023
Backend Intern (EmployWise 🔗)
Java | Spring Boot | Kafka | Neo4j | Couchbase | AWS

- I have worked as a backend intern at GGSL (EmployWise), an HR Management Product, I have developed various microservices in their event-based architecture.
- Implemented various software architecture concepts like IFTTT (If this then that). Also used Neo4j, A graph database for managing hierarchical relationships between users.

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 | Couchbase | Neo4j | AWS

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

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 on new open-source projects.

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

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 | MVVM | 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 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