





Tarun Vinodh Kumar

Entry-Level Software Engineer | Full-Stack Developer | Cloud Enthusiast

 tarunvinodhkumar@gmail.com  (807) 357-3713  [Tarun Vinodh Kumar](#)  [Tarun Vinodh Kumar](#)

EDUCATION

Lakehead University | M.S. in Computer Science | GPA : 3.7/4.0

2023 – 2025

Coursework : Web Development, NLP, Mobile Programming, Big Data

Thunder Bay, Ontario

Panimalar Engineering College | B.E. in Computer Science and Engineering | CGPA : 9.29

2019 – 2023

Coursework: Full-stack Web Development, Artificial Intelligence, Data Structures, Algorithms

Chennai, Tamil Nadu

EXPERIENCE

The Intern Academy

June 2021 – November 2021

Full-Stack Developer

- Collaborated with cross-functional teams and clients to gather business requirements and translate them into technical specifications.
- Designed and implemented a responsive, user-friendly UI for an online course platform, enhancing usability and engagement by 20%.
- Utilized HTML, CSS, JavaScript, Bootstrap, and React.js to develop interactive web interfaces with a strong emphasis on data visualization and accessibility.

The Sparks Foundation

January 2021 – June 2021

Back-End Developer

- Developed and deployed a secure payment gateway system using React.js, Node.js, and MongoDB, increasing transaction reliability and uptime.
- Analyzed backend performance to optimize transaction flows, resulting in a 15% reduction in processing latency.
- Integrated authentication and encryption protocols to safeguard sensitive user data, ensuring compliance with modern web security standards.

PROJECTS

Full-Stack Food Delivery App (React.js, Firebase, Google Maps API)

Thunder Bay, Ontario

- Developed a responsive, real-time food delivery web application using React.js, Node.js, Express.js, MongoDB, and Firebase.
- Integrated Google Maps API for live delivery tracking and enhanced user experience with dynamic routing and order updates.
- Built an admin dashboard for restaurants to manage inventory, orders, and delivery logistics, improving operational efficiency.

Depression Detection System using NLP and Machine Learning

Thunder Bay, Ontario

- Created a model that detects depression using Natural Language Processing (NLP), analyzing user text to identify patterns and indicators of depression.
- Applied data extraction, transformation, and loading (ETL) processes to handle diverse data types and ensure accurate model training.
- Carried out thorough unit testing, leveraging automated unit testing frameworks to ensure the accuracy and performance of the model.

Personal Expense Tracker

Chennai, India

- Built a containerized personal finance tracker hosted on IBM Cloud using Docker and Kubernetes for scalability.
- Developed a user interface to visualize monthly expenses and trends, providing real-time wallet balance updates.
- Collaborated in an IBM-mentored environment, emphasizing cloud-native development and microservices architecture.

SKILLS

Languages: TypeScript, JavaScript, Python, Java, C++, SQL, Kotlin, R.

Web Technologies: React.js, Next.js, Redux, Tailwind CSS, HTML5, CSS3, Framer Motion, Node.js, Express.js, Server Actions.

Databases & Cloud: MongoDB, Firebase, Appwrite, PostgreSQL, MySQL, AWS (S3, EC2, RDS, Athena, Glue, DynamoDB)

Developer Tools: Git, GitHub, VS Code, IntelliJ, Eclipse, Jenkins, JIRA.

Soft skills: Leadership, Communication, Problem Solving, Teamwork, Presentation.