

Dhanush Babu Ramadoss

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EDUCATION

University at Buffalo, The State University of New York (SUNY)

Aug 2023 - Dec 2024

Master of Science: Computer Science

GPA: 3.75/4.0

Coursework: Algorithms, Data Intensive Applications, Data Management Systems, Machine Learning, Computer Vision

R.M.D Engineering College (Anna University), India

Jun 2016 - Sept 2020

Bachelor of Technology: Computer Science and Engineering

Coursework: Operating Systems, Network, Object Oriented Programming, Computer Architecture, Data Structures

TECHNICAL SKILLS

Languages & Libraries: Java, Python, SQL, PHP, JavaScript, TypeScript, C#, C++, Py Torch, GraphQL, Swift, Kotlin

Frameworks: Spring Boot, .NET, [Node.js](#), [Next.js](#), LangChain, React, Angular Oracle Jet, ASP.NET

Databases & Storage: PostgreSQL, MongoDB, S3, Firebase, Oracle, RDBMS, DynamoDB, Blob Storage, Cassandra

Cloud & Tools: AWS, GIT, Hadoop, Spark, Docker, GCP, XML, S3, REST APIs, BMQL, Kubernetes, Terraform, Kafka

PROFESSIONAL EXPERIENCE

Redprint Inc, Lead Software Engineer (Remote, New York)

Aug 2024 – Present

- Directed the design and development of mobile applications for iOS (Swift) and Android (React Native), incorporating Node.js backend services and AWS (Lambda, S3, API Gateway) to provide real-time functionalities.
- Developed and upheld TypeScript-driven frontend dashboards and Socket.IO-enabled interfaces, resulting in a 40% increase in responsiveness for data-intensive applications.
- Implemented automated CI/CD pipelines through GitHub Actions for mobile and web deployments, cutting release times by 90%, and enhanced cloud-native architecture utilizing AWS and Azure Functions for improved scalability.

Tata Consultancy Services, Software Engineer (India)

Dec 2021 – July 2023

- Developed scalable enterprise solutions with Java (Spring Boot), .NET Core (C#), Angular, and SQL Server to upgrade ALDI's ERP system, enhancing operational efficiency by 30% in finance and supply chain processes.
- Developed RESTful microservices with Spring Boot and ASP.NET Web API utilizing OAuth2/JWT authentication and domain-driven design, facilitating smooth integration throughout ALDI's digital platforms.
- Updated outdated monolithic legacy systems by transitioning to Java 17 and .NET 6, utilizing async I/O and non-blocking streams, decreasing API latency by 40% and facilitating streamlined deployments through AWS ECS and Azure App Services.

Cognizant Technology Solutions, Performance Test Engineer (India)

Oct 2020 – Aug 2021

- Conducted performance evaluation for hospital systems employing JMeter, LoadRunner, and tailored testing frameworks (Java, C#, Python), confirming SLA adherence during high patient data loads.
- Detected and addressed performance issues in Java Spring Boot and ASP.NET Core APIs through AppDynamics and Dynatrace, reducing SLA violations by 35% and improving backend responsiveness.
- Developed automated multi-threaded traffic simulations and log parsing processes in Java/Python, decreasing manual QA workload by 30%, and provided comprehensive AWS/Azure scalability assessments for production.

PROJECTS

Laptop AI Advisor App: Python, PyTorch, NLP, React, SciKit-learn, React Native ([link](#))

- Crafted an intuitive interface for predicting laptop prices using XGBoost and KNN models with 87% accuracy, enabling precise, data-driven insights.
- Created visualizations to showcase brand-specific pricing trends and insights, improving user interest.

Real Time Traffic Classification and Recognition: Python, PyTorch, NLP, React ([link](#))

- Developed and trained convolutional neural networks (CNNs) for real-time traffic sign detection and classification, achieving high precision and recall rates.
- Integrated deep learning models into an end-to-end system, optimizing real-time performance with preprocessing, model inference, and result visualization for seamless operation.

Agentic AI Job Application Tracker: Python, Agentic AI, Gemini, NumPy, Pytorch ([link](#))

- Created a self-governing AI-powered job application tracker that does not require user manual tracking and has real-time email analysis and automated status extraction.
- Google Sheets tracking and agentic scheduling were integrated to give job seekers proactive alerts.

CERTIFICATIONS

- AWS Cloud Practitioner, Azure Developer Associate, Node.js, C++, Develop AI Agents on Azure (Microsoft)**