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

Anna University, Chennai, India Jun 2016 - Sept 2020
Bachelor of Engineering: Computer Science and Engineering GPA: 3.6/4.0
Coursework: Operating Systems, Network, Object Oriented Programming, Computer Architecture, Data Structures

TECHNICAL SKILLS

Languages & Libraries: Java, Python, JavaScript, TypeScript, SQL, Swift, Kotlin, GraphQL
Frameworks: Spring Boot, Node.js, React, Angular, Next.js, Oracle JET, PyTorch, LLM, Gemini, Transformers, NLP
Databases & Storage: PostgreSQL, MongoDB, DynamoDB, Oracle, Cassandra, Firebase, SQL Server
Cloud & Tools: AWS, Azure, Docker, Kubernetes, Terraform, Firebase, S3, Blob Storage, Kafka, Cursor, Eclipse IDE

PROFESSIONAL EXPERIENCE

Redprint Inc, Lead Software Engineer (Remote, New York) Aug 2024 – Present

- Created and built web and mobile applications utilizing React and JavaScript, supported by Node.js backend services, incorporating real time functionalities like live updates, session monitoring, and notifications.
- Achieved over 95 percent coverage in unit and UI tests while creating pixel perfect React interfaces with animations and performance tuning at the component level.
- Developed automated CI/CD pipelines through GitHub Actions for React and Node.js deployments, cutting release times by 90 percent and enhancing scalability by segmenting backend functions.

Tata Consultancy Services, Software Engineer (India) Dec 2021 – July 2023

- Created and built microservices based on Java Spring Boot for ALDI's enterprise system, providing RESTful APIs and integrating with PostgreSQL and Kafka, enhancing end to end data processing efficiency by 32%.
- Developed and sustained automated unit and integration tests with JUnit and Mockito, decreasing regression issues by 40% and enhancing release stability in distributed, multi tier environments.
- Implemented and maintained cloud based services in an Agile Scrum setting, troubleshooting production problems,enhancing SQL queries, and working with multidisciplinary teams to decrease the average incident resolution time by 28%.

Cognizant Technology Solutions, Performance Test Engineer (India) Oct 2020 – Aug 2021

- Created performance and validation tools in Java to assess Spring Boot microservices and REST APIs, uncovering scalability issues that enhanced API response times by 25% during peak demand.
- Examined the performance of distributed systems in PostgreSQL, Kafka messaging, and backend services, assisting engineering teams in resolving issues and stabilizing high volume transaction processes.
- Worked alongside developers, QA, and business stakeholders in Agile delivery cycles, creating comprehensive performance reports and test documentation that decreased failed release cycles by 30%.

PROJECTS

Banking Microservices Platform: Java, Spring Boot, Spring Cloud (Eureka, Gateway), MySQL, Keycloak, Docker (link)

- Engineered a FinTech-grade banking backend using microservice architecture for user, account, transaction, and fund transfer operations.
- Implemented secure authentication and authorization with Keycloak (OAuth2 + JWT) and inter-service communication via Feign clients for reliable scalability.
- Integrated Eureka Service Registry and API Gateway for load balancing and routing, achieving clean modular separation and production-level architecture.

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)**