

THARUN GANAPATHI RAMAN

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EDUCATION

The George Washington University, School of Engineering & Applied Science

Washington, DC

Master of Science in Computer Science - GPA : 3.80 / 4.0

May 2024

Expertise: Software Engineering, DevOps, Cloud Computing, Distributed Systems, Software Design and Architecture

CERTIFICATION

AWS Certified Solution Architect Professional

TECHNICAL SKILLS

Programming Languages: Java, Python, C#, Golang, Typescript, Javascript, CSS, HTML

Cloud Technologies: AWS, Kubernetes, Docker

DevOps Technologies: Jenkins, AWS CI/CD, ECR, ECS, EKS, GitOps, ArgoCD, Ansible

Front-End Technologies: React.js, Angular, Flutter

Back-End Technologies: Spring Framework, Node.js, .NET

Database: MySQL, MongoDB, Redis

Version Control: Git, GitHub, BitBucket

WORK EXPERIENCE

The George Washington University

Washington, DC, United States

Software Technical Specialist III

January 2023 - Present

- Led the development of a centralized control software system for devices such as projectors and audio equipment, deployed across five campus locations and over 800 university spaces
- Refined CI/CD pipeline using Jenkins, SonarQube, and Docker, enhancing deployment workflows and infrastructure scalability for Kubernetes via Argo CD
- Managed the project through regular code reviews, daily stand-ups, status meetings, and to ensure project milestones were on schedule

Ideas2IT Technologies Services Private Limited

Chennai, Tamil Nadu, India

Software Engineer

June 2021 - August 2022

- Developed healthcare application systems to auto-detect and extract key medical concepts from unstructured patient reports, utilizing Spark NLP, OCR, and AWS S3, converting free text into structured data
- Designed and deployed 5+ backend microservices and 3+ frontend web components, leveraging event-driven microservice architecture to enhance patient records to support analytics, reporting, and Clinical Decision Support applications
- Streamlined deployment on AWS EKS with a custom VPC setup; orchestrated DevOps workflows and VPC security enhancements for optimal performance

Full Stack Software Developer

June 2020 - May 2021

- Led the team of engineers to design and develop an edtech platform with distinct UIs for parents, partners, and cohort-based learning. Utilized Docker and Kubernetes for container orchestration, leading to increase in parent conversational engagement
- Crafted a bespoke video player using React Player for parent lectures, and implemented an appointment management module in the partner app for streamlined online and offline sessions

Software Developer New Grad

June 2019 - May 2020

- Designed a tailored sophisticated analytics platform that streamlined data ingestion, cleansing, and transformation, enabling deep data exploration and the revelation of essential business insights
- Worked closely with cross-functional teams using Jira and agile methodologies; advocated for and incorporated feedback to improve team dynamics and product excellence

TECHNICAL PROJECTS

Hey Serverless - Golang, Docker, Kubernetes, AWS, Git

November 2023 - Present

- Engineered a serverless system by integrated custom algorithms for dynamic auto scaling and fault tolerance, guaranteeing consistent performance under diverse load conditions
- Implemented event-driven autoscaling using AWS SQS and Lambda for optimal resource allocation and system efficiency
- Implemented PBFT with cache checks and automated AWS Lambda remediation for increased system reliability

iHype 15 - Apache Kafka, Apache Spark, Amazon DynamoDB, Amazon QuickSight

January 2023 - May 2023

- Engineered a real-time sentiment analysis system for the iPhone 15 release, streaming tweets and articles into DynamoDB, leveraging AWS for data processing, and showcasing public perception via interactive QuickSight dashboards

AI Sous-Chef Mobile App - Flutter, Dart

September 2023 - May 2023

- Developed an AI-enhanced recipe recommendation engine within a Flutter-based food app on both iOS and Android, targeting personalized content delivery, which included interactive meal planning and integrated video tutorials