

# Ajith Jayaraman Nair

New York | [nairajithj@gmail.com](mailto:nairajithj@gmail.com) | +1 (848) 213-3097 | [github.com/ajithnair20](https://github.com/ajithnair20) | [linkedin.com/in/ajith-nair20](https://linkedin.com/in/ajith-nair20)

## PROFILE SUMMARY

Software engineer with 4+ years of full-stack software development experience working on distributed systems in an agile environment.

## EDUCATION

**University of Illinois at Chicago (UIC) – Chicago, Illinois**

**Aug 2019 - May 2021**

Master of Science in Computer Science

**GPA: 3.88**

## SKILLS

**Languages:** Python, Kotlin, Typescript, Java, C#, ruby.

**Cloud Services:** AWS Lambda, S3, SNS, API Gateway, DynamoDB, Kinesis, Transfer Family, Secrets Manager, SES, Pinpoint

**Technologies:** Terraform, React JS, Android, Docker, Kubernetes, Selenium, .NET

**Database:** AWS DynamoDB, SQL Server, MySQL, MongoDB.

## PROFESSIONAL EXPERIENCE

**Slalom Build**

**Jun 2021 – Present**

**Software Engineer**

**Chicago, IL**

- Designed and developed backend modules of a banking application with Event Driven Architecture using serverless architecture on AWS.
- Implemented microservices using **AWS Lambdas** in **Kotlin** and **Python** backed with **AWS Kinesis Data Streams** and **DynamoDB** database for push notifications management.
- Configured **AWS SNS** platform and endpoints to push notifications to devices registered using Firebase Cloud Messaging.
- Designed backend modules for a customer support messaging service to provide live chat support.
- Planned and managed migration of Lambda services to **arm64** architecture improving price performance by 25%.
- Developed tool to analyse performance of API endpoints with breakdown of execution time of components of the service.
- Managed IAM roles, policies, and resource provisioning with Infrastructure As Code using **Terraform**.
- Designed unit and integration test scripts using **Mockk**, **Pytest** and **Rspec** for test-driven development of modules.

**Slalom Build**

**Jun 2020 – Aug 2020**

**Software Engineer Intern**

**Chicago, IL**

- Implemented Client Visit Management system to manage virtual and in-Person customer tours to Build Centres.
- Designed and developed role management module using **AWS Cognito User Pool** and Authentication triggers with **SSO** integration using **Azure Active Directory**.
- Developed React components with **Redux** and **Hooks** for state management to support UI of the role management module.
- Integrated **AWS SAM CLI** scripts to generate user for automated API and UI testing in the deployment pipeline which helped increase testing efficiency by 20%.
- Developed **AWS API Gateway** APIs backed by a **NodeJS** Lambdas and **Dynamo DB**.

**Fides Consultancy Services**

**Jan 2019 – July 2019**

**Software Consultant**

**Mumbai, India**

- Implemented ERP application to handle freight inventory management, imports and sales request management which helped improve QoQ profits of the client by 30%.
- Designed and developed maker-checker workflow modules which helped reduce turnaround time of requests by 25%.
- Developed endpoints to manage API requests using **.NET MVC** and **SQL Server** and deployed to **AWS EC2** instance.

**Tata Consultancy Services**

**Aug 2015 – Oct 2018**

**Systems Engineer**

**Mumbai, India**

- Implemented modules for workflow management software to manage over **300,000** visa processing requests per month.
- Developed modules for GST integration automating tax calculations using **.NET Web Forms** with **SQL Server**.
- Implemented SQL Server Agent jobs to automate multiple business operations which decreased cost of operations by 10%.

## PROJECTS

**Task Planner** - .NET Core Microservices, C#, Docker, AKS, SQL Server, Android, SQLite

- Designed a Container and Microservice based architecture for backend APIs using **.NET Core** and **Docker** for a Daily Task Planner application.
- Designed CI/CD pipeline to deploy microservices to **Azure Kubernetes Service** cluster.
- Developed mobile application consuming the backend APIs using **Android** with **SQLite** DB and Background service.

**Distributed Hash Table Implementation** - Akka Http Actor Model, Scala, Docker

- Implemented simulation of Chord Algorithm used in peer-to-peer network distributed hash table for data look-up and storage using Lightbend's **Akka Http Actor model** in **Scala**.
- Deployed **Docker** image of application on Docker Hub by integrating with Bitbucket pipeline.