

# Kevin Alappat

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## Summary

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Skilled backend developer with experience in Python, JavaScript, C / C++. Commanding a great understanding in basic data structures & algorithms. Experience with DevOps such as Docker, Vagrant, Jira.

## Projects

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### JavaScript Maze Solver

- Employed 3 algorithms– depth first search (DFS), breadth first search (BFS), A\* search.
- Built a program that allows users to design their own mazes up to 25 x 25 in size.
- Built a program that allows users to generate random mazes up to 25 x 25 in size.

### Spaced Repetition Flashcards Application

- Built a flashcards application using Django & PostgreSQL.
- Developed a spaced repetition algorithm that considers 4 metrics – user difficulty, time to answer, previous difficult with question, current scheduling time.

### Blog Application

- Created a RESTful API backend with 10 end points.
- Implemented authentication using JWT tokens for creating, editing and publishing blogs.
- Containerized the application using Docker.

## Education

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### B. Tech Computer Science Engineering & Business Systems

Vellore Institute of Technology, Vellore – 2026 – 9.05

## Certifications

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### AWS Certified Cloud Practitioner

AWS – 2024

- Understood Cloud Computing fundamentals, including deployment models, service models and cloud architectural principles.
- Proficiency in AWS Core services such as EC2, Lambda, S3, DynamoDB.
- Knowledge of security best practices such as Identity and Access Management, encryption methods, compliance frameworks

## **MongoDB Node.JS Developer Path**

### MongoDB – 2024

- Learnt how to design and model NoSQL databases using MongoDB, including schema design, indexing strategies, and data relationships.
- Understood how to perform Create, Read, Update, and Delete (CRUD) operations using MongoDB, as well as utilizing the aggregation framework for data analysis and complex queries.
- Learnt how to ingrate MongoDB with Node.JS using Mongoose ORM

## **Skills**

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Cloud Computing – AWS

Programming Languages –Node.JS, Python, C, C++

Databases – PostgreSQL, MongoDB

Frontend Development – HTML, CSS, JavaScript, React, Bootstrap 5

Hands On Experience working with Ubuntu, CentOS