

# Akash T S M

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## Objective

Aspiring **Software Engineer Intern** passionate about building **reliable, scalable, and secure cloud infrastructure**. Eager to contribute to **EA's Infrastructure & Platform Services (IPS)** by **designing, implementing, and optimizing backend systems**, enhancing **service reliability**, and **automating deployment pipelines** to power next-level interactive entertainment experiences.

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## Education

**Vellore Institute of Technology (VIT)** — *B.Tech in Computer Science*

2023 – 2027 | CGPA: **9.38 / 10**

**Sunbeam Senior Secondary School** — *CBSE (Class XII)* | 2021 – 2023 | **92%**

**Bhagwan Mahaveer Dayaniketan Jain School** — *CBSE (Class X)* | 2009 – 2021 | **93%**

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## Technical Skills

**Programming:** Java, Python, Scala, Kotlin, C++

**Cloud Technologies:** AWS, Google Cloud Platform, Azure

**Databases:** MySQL, PostgreSQL, MongoDB, Redis

**Frameworks & Tools:** Docker, Kubernetes, Terraform, Helm, Jenkins, Git, CI/CD

**Web & APIs:** REST, gRPC, Flask, Spring Boot, Node.js

**OS & Networking:** Linux/Unix, Bash, TCP/IP, Load Balancing, DNS

**Other:** NoSQL, Microservices Architecture, Infrastructure as Code, AI/ML (Basics), Security Best Practices

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## Projects

### 1. Cloud-Based Game Telemetry Platform (*Java, Spring Boot, AWS, Docker*)

- Designed and deployed a **scalable real-time data ingestion system** for player-facing telemetry using REST APIs and Kafka.
- Implemented **containerized microservices** on AWS ECS with **Terraform** for infrastructure as code.
- Improved system reliability by **25%** through load balancing and autoscaling groups.

### 2. Multiplayer Game Matchmaking Service (*Kotlin, gRPC, Redis, Kubernetes*)

- Built a **high-performance matchmaking API** supporting **10 000+ concurrent players** using gRPC for low-latency communication.
- Deployed on a **Kubernetes cluster** with **Helm charts** to simplify configuration and scaling.

### 3. Infrastructure Monitoring Dashboard (*Python, Flask, Prometheus, Grafana*)

- Developed an **internal monitoring tool** to track server health, network latency, and API performance metrics.
  - Automated deployments using **CI/CD pipelines** and integrated **security scans** for container images.
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## Achievements & Certifications

- AWS Academy Graduate – Cloud Foundations**
- Google Cloud Cohort Program (2025)** – Hands-on training in cloud architecture, deployment, and scalable service management
- IBM Cloud Essentials – [IBM Skills Network](#)**
- Winner, Hack the Cloud 2024** – Built a scalable multiplayer backend using REST APIs and Redis
- Top 5% in University DSA Hackathon** – Algorithm optimization and efficient data handling