

Ashish Higgins

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Education

Bachelor of Technology in Computer Science and Engineering

IIIT Dharwad 2021 - 2025

Relevant coursework: Data Structures and Advanced Algorithms, Cloud Computing, Machine Learning, Network Security, DevOps

Technical Skills

Languages: Java, Python, SQL, JavaScript

Frameworks: Spring Boot, Flask, Hibernate, Flutter

Tools: Docker, Google Jib, Jenkins, Grafana, Prometheus

Cloud & DevOps: AWS (S3, EC2, Lambda), Google Cloud, Azure

Projects

Banking Application Microservices — Java, Spring Boot, WebHooks, Netflix Eureka, Resilience4j, RabbitMQ, Docker Link

- Designed and developed three microservices for a comprehensive banking service, adhering to industry best practices and proper documentation.
- Service Discovery & Load Balancing:** Improved client-side service discovery using Spring Cloud Netflix Eureka, reducing request latency by 35ms and enhancing system responsiveness by 20%.
- API Gateway:** Deployed Spring Cloud Gateway to manage cross-cutting concerns, improving security and centralized logging for over 10 services.
- Fault Tolerance:** Integrated Resilience4j's circuit breaker pattern to enhance fault tolerance, reducing downtime by 25% during outages.
- Monitoring and Observability:** Set up Grafana, Prometheus, and Loki for 10+ microservices, reducing incident resolution time by 50% through real-time dashboards and alerts.
- Event-Driven Architecture:** Developed an event-driven architecture using RabbitMQ, improving message queue throughput by 60%.
- Containerization:** Streamlined deployment of 5+ microservices with Google Jib and Docker, cutting deployment times by 40% and enabling rapid scaling on cloud infrastructure.

Medical OCR and Abstract Generation — Java, Spring Boot, Python-Flask, AWS Services, Docker

- Created an OCR and text summarization tool for processing medical records, improving processing speed by 25%.
- AWS S3 Storage:** Designed a scalable storage system for efficient file management, reducing retrieval times by 30%.
- Automated Text Extraction:** Created an OCR client to process files from S3, enabling faster data access for healthcare providers.
- Summarization Engine:** Built a Flask-based service to generate abstracts from extracted text, reducing manual summarization time by 50%.
- Dockerized Deployment:** Used Google Jib to containerize the application, streamlining deployment to AWS EC2 by 40%.

Experience

Backend Developer Intern — NMHS-CDMA

May 2023 – Jul 2023

- Enhanced API response time by 15% for a backend service
- Reduced code duplication by 30% through core component refactoring.

Achievements

Qualified for the GDSC Student Challenge, developing a real-world solution to combat malnutrition in India for NGOs.

Developed an entry management system as part of college project.

Leadership / Extracurricular

BlockSock — **Backend Lead** IIIT Dharwad

Led the backend development team at BlockSock, the Web3 development club of IIIT Dharwad, driving innovative projects and mentoring junior developers.

GDSC Cloud Chapter — **Core Team** IIIT Dharwad

Active contributor in cloud development and resource provisioning, facilitating workshops and technical sessions for peers.