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

Experience

Infosys SP Intern (STS) — Hubli **Jan 2025 – Present**

- **Developing Scalable Microservices** using cloud-native methodologies to ensure high availability and performance.
- **Leveraged Spring Framework** to build robust, efficient, and maintainable backend services.

Technical Skills

Languages: Java, Python, Go, SQL, JavaScript, HTML

Frameworks: Spring Boot, Spring Security, Flask

Tools: Docker, Jenkins, Grafana, Prometheus, KeyCloak, HashiCorp consul

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 6 services.
- **Fault Tolerance:** Integrated Resilience4j's circuit breaker pattern to enhance fault tolerance, reducing downtime .
- **Monitoring and Observability:** Set up Grafana, Prometheus, and Loki for over 5 microservices, reducing incident resolution time through real-time dashboards and alerts.
- **Event-Driven Architecture:** Developed an event-driven architecture using RabbitMQ, improving message queue throughput.
- **Containerization:** Streamlined deployment of over 5 microservices with Google Jib and Docker, cutting deployment times by 40% and enabling rapid scaling on cloud infrastructure.

Course Catalog Application — Java, Spring Boot, Spring Cloud Gateway, Spring Security, Keycloak, Azure, Docker

- Designed and developed a scalable course registration platform using Spring Boot for backend services.
- **API Gateway:** Integrated Spring Cloud Gateway to manage routing, authentication, and token relay for backend service requests.
- **Single Sign-On (SSO):** Implemented secure SSO with Keycloak, facilitating seamless social login and robust authentication workflows.
- **Security Enhancements:** Configured and deployed Keycloak with HTTPS-enabled certificates to facilitate secure OAuth-based Google login, ensuring robust authentication and compliance with security protocols.
- **Automated CI/CD Pipeline:** Configured a Jenkins pipeline to automate Maven builds, Docker image creation, and deployment to Azure Virtual Machines via GitHub webhook triggers.
- **Cloud Deployment:** Deployed the complete application stack on Azure Virtual Machines, ensuring high availability, security, and scalability.

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.