

DIVIYYA SHREE IYAPPAN

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PROFESSIONAL SUMMARY

Recently qualified MSc Computer Science graduate with experience in distributed systems, microservices, and resilient backend design. Proficient in Java, Kafka, Docker, Kubernetes, and SQL/NoSQL databases, with hands-on experience building fault-tolerant, high-availability systems. Seeking a Graduate Software Engineer role to contribute to reliable, large-scale software.

SKILLS

- Programming Languages – Java , DSA
- Databases- MySQL, Postgres , MongoDB
- Distributed Systems & Infrastructure – Kafka, Docker, Kubernetes, Spring boot, REST, gRPC
- Tools – GIT, IDEs- Eclipse, IntelliJ Idea

PROFESSIONAL EXPERIENCE

DEMONSTRATOR | UCD

Dublin | **08/2024-05/2026**

- Modules undertaken: Computer Architecture, Web Development, Java
- Responsible for assisting students in applying their theoretical knowledge in a practical setting
- Fostering a positive and engaging learning environment for the undergraduates.

INTERN | WNS-VURAM

INDIA | **01/2023- 04/2023**

- Developed automated full stack solutions for diverse projects based on real time scenarios using a low-code approach.
- Created an application that automated the loan request and approval of the Loan process.
- Worked with Appian, to create interfaces and process models for the same.
- Request form that when submitted will be assigned as tasks to the teams responsible for Approval. • The employee and approval team members' details were fetched using MySQL.

PROJECTS

Microservices Based Distributed System - https://github.com/Ritika-1/Distributedsystem_group_Project.git

- Designed and implemented a microservices-based college meeting room booking system with Booking, Availability, Authentication, and Notification services, each with its own database and REST APIs.
- Engineered a strong-consistency locking model in the Availability Service using a lock–confirm–expiry workflow to guarantee mutual exclusion and prevent double bookings under high contention.
- Integrated asynchronous Kafka event-driven communication to decouple services, enable eventual consistency, and maintain system availability during spikes and partial failures.
- Deployed containerized services with Docker and Kubernetes, implemented JWT-based authentication, and validated resilience through tests combining simultaneous bookings and simulated service/network failures.

Resilient Microservices with Fault Tolerance - <https://github.com/DiviyyaShreelyappan/resilient-microservice-with-fault-tolerance.git>

- Developed a client-server microservices architecture demonstrating resilience patterns and fault tolerance mechanisms critical for production distributed systems.
- Implemented Circuit Breaker and Retry patterns using Resilience4j to prevent cascading failures and handle transient errors gracefully.
- Built fallback mechanisms that return graceful error responses when the backend service is unavailable or exhausts retry attempts.
- Created chaos engineering testing infrastructure with configurable failure injection and latency simulation, enabling validation of system behaviour under failure conditions.
- Deployed with Docker Compose and Kubernetes, demonstrating infrastructure-as-code for multi-service deployments with proper service discovery and networking.

Dublin Bikes Project - <https://github.com/dsmnov/COMP30830-GROUP-PROJECT-GROUP-12.git>

- Applied Scrum across four two-week sprints with rotating Scrum Master roles, structured product backlog, and sprint planning, review, and retrospective ceremonies to guide iterative delivery.
- Managed user stories and acceptance criteria in a centralized backlog, using prioritization (P0–P3) and Figma mock-ups to keep development aligned with user needs and UI/UX goals.
- Used Agile collaboration practices including stand-ups, Google Drive/Sheets for shared artefacts, and a GitHub branching workflow to coordinate parallel frontend, backend, and ML development.
- Incorporated continuous feedback via burndown tracking, sprint retrospectives, unit tests, and usability testing (SUS score ~70) to refine scope, architecture, and user experience over successive sprints.

Full stack Website- https://github.com/dharnesh13600/COMP47360-G1-Research_Practicum.git

- Led API integration and data fetching from backend services for Next.js frontend, ensuring efficient data flow and system reliability.

EDUCATION

MSc in Computer Science (Conversion)(Masters)

DUBLIN | 2024- 2025

University College Dublin

- GPA: 3.66 (2:1)

ADDITIONAL LEARNING EXPERIENCES

WEB TEAM MEMBER | CAVEAT LECTOR MAGAZINE UCD

DUBLIN | 08/2025- Present

- Responsible for creating layouts and ensure smooth user experience in the magazine's web page.

VOLUNTEER | FRIENDS OF ELDERLY

DUBLIN | 02/2025- Present

- Helping out in the charity shop of this organization to raise funds for the elderly.
- Responsible for interacting with customers, organizing the shop and collecting donations.

UCD CREATIVE HACKATHON | UCD

DUBLIN | **01/2025**

- Won third prize for the topic, "How can AI help foster human connection", out of 12 teams that participated.
- Developed a prototype for the same focusing on leveraging AI to enhance inclusivity, communication and collaboration among the students.
- Features: Personalized onboarding, Real-time translation to break language barriers, Smart scheduling to suggest the optimal timing for students to hop on calls, avoiding overlaps.