

# Harrish Dhaitya Kutte Ajan Babu

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## Education

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### Dublin City University

Msc Computing (major in Secure Software Engineering)

Expected August 2026

Dublin, Ireland

- **Relevant Coursework:** Cryptography, Secure Programming, Blockchain, Network Security, Concurrent Programming

### Sri Ramakrishna Institute of Technology

B.E. Computer Science and Engineering

Aug 2019 - June 2023

Coimbatore, India

- **Relevant Coursework:** Operating Systems, Computer Networks, Internet Programming, Distributed Systems, Cryptography

## Technical Skills

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**Programming Languages:** Java (Expert), Python, C/C++

**Backend & Architecture:** Spring Boot, REST APIs, Object-Oriented Design (OOD), Design Patterns, Message Queues (Kafka, RabbitMQ)

**Frontend & Web:** ReactJS, Ember.js, JSP/Servlets, HTML/CSS

**Databases:** PostgreSQL, MySQL, Elasticsearch

**Cloud & DevOps:** AWS (Lambda, API Gateway, ECS/EKS), Docker, Jenkins, Git

**Tools:** IntelliJ IDEA, Profiler, Maven, Gradle, Unix/Linux

## Experience

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### Zoho Corporation (ManageEngine)

Member Technical Staff

June 2023 – July 2025

Chennai, India

- Collaborated on a high-impact team initiative to migrate enterprise reporting modules from Exchange Online PowerShell to Graph API, resulting in a 80% performance improvement for data-intensive workflows.
- Took ownership of the product's usability enhancements, involving improving data presentation for nested data and reducing the number of clicks in frequent operations.
- Improved the trade-off between memory usage across all modules by implementing a fixed-size thread pool in the high-memory-consuming module, reducing downtime for enterprise customers.
- Implemented an LRU-based caching technique to reduce database read operations during high volume data collection process.
- Took ownership of multiple releases by resolving blocking issues and coordinating with peer developers, senior engineers, and external teams to streamline the release process.
- Diagnosed and resolved real-world customer issues, gaining hands-on experience with production systems, edge cases, and failure scenarios.

### Zoho Corporation (ManageEngine)

Project Trainee

Sep 2022 – May 2023

Chennai, India

- Engineered a web-based email traffic generator using Exchange Web Service to simulate massive enterprise-scale workloads, utilising configurable concurrency and thread-pool management.
- Build a collection, build a rest-api based collection utility to gather message trace from Exchange Online and integrate with Email Traffic Generator.
- Evaluated Microsoft 365 data collection tools (Exchange Online Module, Graph API, Office 365 Management API) and conducted a feasibility analysis to migrate from high-latency to low-latency utilities, thereby improving product performance.

### Zoho Corporation (ManageEngine)

Summer Intern

Sep 2022 – May 2023

Chennai, India

- Engineered a comprehensive online banking application using an iterative development approach. Built an initial version as a console app, incorporated continuous feedback and upgraded it into a fully functional web-based banking platform.
- Collaborated closely with the technical mentors while adopting best practices in software architecture, UI Design, and security of web applications.

## Projects

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### **Linear Cryptanalysis of FEAL-4** | *Java*

- Implemented a known-plaintext attack to recover subkeys from 200 ciphertext combinations.
- Optimised runtime by reducing the search space from  $2^{32}$  to  $2^{12} \times 2^{20}$  by narrowing the search to the inner 12 bits and extending the solution to the outer 20 bits.

### **Flight Ticket Booking System** | *Java, Springboot, ReactJS, Postgres, Gradle, GitHub Actions*

- It is a Collaborative development project utilising an Agile methodology within the Software Quality Process course at DCU.
- Managed project lifecycle using Jira for user stories and Confluence for technical documentation.
- Architected CI/CD pipelines and development environments using Docker, Gradle, and GitHub Actions.
- GitHub Link: <https://github.com/harrishdhaithya/group4-safeflight-project/tree/dev>

## Hackathons Attended

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### **Virtusa Jatayu** | *Virtual* | *April, 2022* | **Code**

- Designed and architected a centralised hotel reservation system using a serverless architecture, focusing on scalability and cost efficiency.
- Led a 6-member team, coordinating system design and delegating implementation tasks to deliver a working prototype within tight timelines.

### **AWS Breaking Barriers** | *Amazon, Dublin* | *Jan, 2026* | **Code**

- Collaborated with a cross-functional team of 8 (employees, partners, customers, and students) to build an AI-enabled inventory management platform aimed at reducing food wastage for the charity FoodCloud.
- Contributed to solution design and implementation using cloud-native services to support social impact initiatives.