

# HARINEE ANANDH

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Portfolio: <https://harineeanandh.github.io/harineeanandh-portfolio/>

## EDUCATION

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### GEORGE MASON UNIVERSITY

Master of Science

Major in Computer Science

**Key Coursework:** Object Oriented Software Specification & Construction, Analysis of Algorithms, Database Concepts, Software Testing & Security, Reinforcement learning, Computation theory

Fairfax, Virginia

Aug 2022 - May 2024

### Coimbatore Institute of Technology

Bachelor of Engineering

Major in Computer Science & Engineering

**Key Coursework:** Data Structures & Algorithms, OS, DBMS, Object Oriented Analysis & Design, Web Development, Compiler Design, Software Engineering, Data Warehousing & Data Mining

Coimbatore, Tamilnadu

Aug 2016 - Sep 2020

## WORK EXPERIENCE

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### BOSCH GLOBAL SOFTWARE TECHNOLOGIES

Associate Software Engineer

Coimbatore, Tamilnadu

Jan 2021 – May 2022

- Developed and maintained enterprise-grade file conversion modules in **Java, XML, and HTML** for structured data transformation across 4+ internal business applications.
- Automated 50+ unit and **integration test cases using JUnit, Selenium and Jenkins**, reducing manual QA effort by ~25% and enhancing test coverage consistency through **TDD (Test Driven Development) practices**.
- Designed **CI/CD pipelines and integrated RESTful APIs via API Gateway**, enabling weekly deployments and reducing deployment time by 30%.
- Investigated and resolved production issues through **root cause analysis** and **regression testing**, leading to a 20% drop in repeat defects.
- Collaborated with cross-functional teams in **Agile** sprints following a **Kanban** flow and mentored 3 junior developers in **version control (Git), debugging, and clean coding practices**.

### CENTRE FOR ARTIFICIAL INTELLIGENCE & ROBOTICS (CAIR) - DRDO

Intern

Bangalore, India

Jun 2020 – Sep 2020

- Built a **Python**-based anomaly detection model using **neural networks**, reducing false positives by 20%.
- Processed geospatial data with **Google Maps API, NumPy, and Pandas**, improving prediction accuracy by 30%.
- Experimented with model architectures, hyperparameters, and evaluation metrics to understand deep learning workflows and training pipelines.

## UNIVERSITY & PERSONAL PROJECTS

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### THOUGHTNEST – FULL STACK BLOG PLATFORM

June 2025

- Designed and deployed **ThoughtNest**, a full-stack blogging platform with JWT auth, GCS image uploads, full-text search, Docker-based CI/CD, and Azure hosting. Wrote unit + integration tests using JUnit and Mockito.
- Live link at my portfolio: <https://harineeanandh.github.io/harineeanandh-portfolio/>

### FLAKY TEST RESOLUTION PROJECT

Jan 2023

- Resolved 90% of nondeterministic test failures in the IDoFT repository using **Java, JUnit, Maven, and Git**.
- Enhanced stability by **refactoring test code** and optimizing performance using **Linux and OOP principles**.

## CERTIFICATIONS

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### HPE SOFTWARE ENGINEERING JOB SIMULATION

Completed May 2025

- *Focus: Java Spring Boot, REST APIs, JUnit testing, Greenlake Cloud*

### WALMART ADVANCED SOFTWARE ENGINEERING JOB SIMULATION

Completed May 2025

- *Focus: Data Structures, Software Architecture, Relational Database Design, Data Munging, Python, SQL*

### AWS SOLUTION ARCHITECT JOB SIMULATION

Completed May 2025

- *Focus: AWS cloud architecture design, Elastic Beanstalk, Scalability & Fault Tolerance, AWS pricing*

## SKILLS

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Java, C, Python, SQL, JavaScript, Spring Boot, Selenium, REST APIs, React, cURL, JUnit, Git, Jenkins, Kanban, CI/CD, AWS, Azure, Docker, PostgreSQL, MySQL, HTML/CSS, PHP, Linux, Maven, Pandas, NumPy, OOP, DSA, Problem Solving, TDD practices