

HARINEE ANANDH

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EDUCATION

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

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

THOUGHTNEST – FULL STACK BLOG PLATFORM

June 2025

- Built a full-stack blog platform called **ThoughtNest** using **React, Spring Boot, and PostgreSQL**, featuring **JWT-based authentication**, user-specific dashboards, article CRUD, publish/unpublish functionality, and search.
- Tested **RESTful APIs** using **cURL**, wrote unit tests with **JUnit and Mockito**, containerized the application with **Docker**, and deployed it on **Microsoft Azure**.

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

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

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