

Aswin Salomon Raja A

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Education

Bharath Institute of Higher Education and Research
Bachelor of Technology in Computer Science (CGPA: 8.4 / 10)

2021-2025

Chennai, TamilNadu

BrotherHood Matric Higher Secondary School
10th Grade: 446/500, 12th Grade: 530/600

2019-2021

Chennai, TamilNadu

Technical Skills

Languages: Java, Python, JavaScript

Technologies: HTML, CSS, React.js, Spring Boot, MySQL, Scikit-learn, Pandas, Numpy

Concepts: Object-Oriented Programming(OOP), Data Structures and Algorithms, DBMS, Hibernate, Computer Networks, Spring Security

Tools & Platforms: Git, GitHub, VS Code, IntelliJ IDEA, Eclipse, Jupyter Notebook

Experience

Airport Authority of India

July-2024

Internship | Link

Chennai, TamilNadu

- Gained hands-on experience in understanding server configurations, networking setups, and data center operations.
- Understood the various components and infrastructure that ensure the smooth functioning of data centers.
- Learned how terminals connect through routers, firewalls, and switches to ensure secure and efficient communication across the airport's network.
- Submitted a report on the data center's networking architecture and received a certificate upon successfully completing the internship.

Projects

Hybrid Malware Detection System | Python, scikit-learn, PyTorch, Pandas, NumPy

| GitHub

- Built a hybrid malware detection system integrating static analysis, dynamic behavior monitoring, and CNN-based image classification to accurately identify malicious files.
- Engineered a robust end-to-end pipeline using Python, PyTorch, and feature extraction tools to preprocess data, train models, and enable real-time classification via a graphical user interface
- Achieved 96.2% precision and 95.5% F1-score, with the CNN model outperforming SVM and Random Forest, and integrated it into a PyQt5-based GUI for practical malware scanning.

Smart Email Reply Generator | React js, Spring Boot, Bootstrap, Gemini AI

| GitHub

- Implemented AI-powered email generation using Gemini AI and Spring AI for professional, casual, and friendly responses.
- Developed a full-stack solution with ReactJS (frontend) and Spring Boot (backend) for seamless integration.
- Built a browser extension that adds a "Generate Reply" button in web-based email platforms for instant AI-generated responses.

Web Application for Homemade Food Ordering | HTML, CSS, JavaScript, Spring Boot, MySQL

| GitHub

- Built a platform allowing cooks to list homemade meals and users to browse and order easily.
- Developed backend with Spring Boot and MySQL for secure user management and order processing, and frontend with ReactJS for a smooth user experience.
- Enabled local communities to access fresh homemade food conveniently, supporting small-scale cooks and improving food availability.

Certifications and Achievements

- Solved more than 150 problems on **GeeksforGeeks** enhancing problem-solving skills.
- Solved more than 50 problems on **LeetCode** strengthening problem-solving skills.
- Successfully completed the NPTEL certification course on **Introduction to Internet of Things**.
- Successfully finished a challenging 30-day online masterclass in Full Stack Development, exhibiting proficiency and dedication to the field.
- Attended a 3-hour workshop on Full Stack Development on February 25, 2024.

GeeksforGeeks

LeetCode

Link

Link