

# ARAVINDH R

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## Summary

Enthusiastic and committed software development engineer with 4+ years of hands-on experience in application design, development, automation, and streamlining deployment through cloud and DevOps tools. Possesses robust communication and problem-solving skills, coupled with a proactive approach to embracing and overcoming new challenges. Eager to contribute technical expertise and collaborative energy to innovative projects.

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## Experience

### Genesys

Senior Software Engineer

01/2025 - Present

1. Led the development of a modernized software installation portal, using **React + Vite** for a responsive frontend hosted on **Amazon S3 and CloudFront**, resulting in **40% faster load times** and improved user engagement.
2. Designed **event-driven** data ingestion pipelines using **AWS EventBridge, Lambda, and Kinesis**, enabling real-time data flow into **Snowflake or S3 buckets** for downstream analytics, ensuring **low latency and cost efficiency**.
3. **Collaborated directly with customers** to gather requirements, implement new features, and resolve issues, ensuring high customer satisfaction and fast turnaround for critical fixes.
4. Partnered with product and design teams to define architecture, optimize performance, and streamline deployments, reducing **release cycles by 30%**.

### Comcast

Development Engineer - 2

06/2021 - 01/2025

1. Enhanced the [VinylDNS open-source platform](#) by developing core features and fixing critical bugs, boosting platform reliability by **30%**. Maintained the codebase through **rigorous code reviews**, issue triaging, and active GitHub contributions.
2. **Developed concurrent backend services using Scala and the Akka framework**, enabling scalable, event-driven systems with asynchronous messaging patterns and fault tolerance. These services supported **high-throughput workloads** with minimal latency.
3. **Designed dynamic user interfaces using AngularJS**, implementing responsive components and stateful UI features that improved user task efficiency by **20%**. Integrated APIs with real-time backend services for seamless UX.
4. **Re-architected Concourse CI/CD pipelines**, enabling smooth cross-org migration. Automated infrastructure using **Terraform (IaC)** and managed configurations via **Ansible**, reducing deployment cycles by **40%**.
5. Strengthened product reliability by **60%** through the implementation of comprehensive **unit, integration, and functional tests** for new features.
6. Developed automation tools with **AWS Lambda** and **Python scripts**, streamlining manual operations and improving team efficiency by **70%**.
7. **Migrated MySQL databases** from OpenStack to **AWS RDS** using **AWS DMS**, ensuring minimal downtime and establishing automated backups for data durability.

### Avasoft

Intern

03/2021 - 05/2021

1. **Quickly ramped up on ReactJS, .NET, SQL Server, and SharePoint** during the internship, contributing to full-stack feature development while also **leading the creation of technical documentation** for the codebase and architecture, significantly improving team productivity and knowledge transfer.

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## Skills

- **Technical Skills:** Scala, Python, JavaScript, ReactJS, AngularJS, Play Framework, Akka, MySQL, AWS (Lambda, S3, DynamoDB, CloudFront, RDS, CloudWatch, CloudFormation, EventBridge), Docker, Linux, Git, GitHub Actions, Jenkins, Concourse CI, Terraform, Ansible, Serverless Framework, Elasticsearch, Logstash, Kibana, Grafana.
  - **Soft Skills:** Communication, Teamwork, Problem-solving, Adaptability, Time Management, Critical Thinking.
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## Awards and Certifications

- Received 'Pinnacle Champ' award in Comcast for taking up challenges within the project and successfully completing them.
  - **AWS Certified Solutions Architect** - Associate.
  - **AWS Certified Data Engineer** - Associate.
  - Completed 'Python For Everybody (Python Specialization)' course at Coursera.
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## Academic Projects

- **Attendance Management Application:** Developed an **Android app** enabling staff to efficiently record student attendance through a user-friendly interface, built using **Java** and integrated with a **MySQL** database for seamless data storage and retrieval.
  - **Burger Shop Website:** Created a **full-stack web application** for ordering burgers using the **MERN stack** (MongoDB, Express, ReactJS, Node.js), with deployment on **Heroku**, offering a smooth and responsive customer experience.
  - **Vehicle Classification and Analysis:** Implemented a **vehicle detection and classification system** using the **YOLOv3 object detection algorithm**. Developed a **GUI in PyQt5** that allows users to upload and process videos, displaying classified vehicle types and counts in real time.
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## Education

### Bachelor of Engineering - CSE

St. Joseph's College of Engineering, Chennai, TN  
04/2021

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## Languages

- Tamil - Native Proficiency
  - English - Professional Working Proficiency
  - Hindi - Elementary Proficiency
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## Hobbies

- **Contributing to Open Source Projects:** Engage in collaborative programming projects, contributing to open-source software development communities to enhance skills and support innovation.
  - **Reading and Reviewing Books:** Actively engage in reading and critically analyzing various genres of literature, contributing reviews on platforms like Goodreads.
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## Socials

- LinkedIn: <https://www.linkedin.com/in/aravindh-raju>
- Github: <https://github.com/Aravindh-Raju>
- Website: <https://aravindh-raju.github.io/>