Arivarasan Ramasamy

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EDUCATION

Master of Science in Information Systems Management, University of South Florida, Tampa (GPA 3.8/4)	**10/2023**
Bachelor of Science in Electronics Engineering, Anna University, India	**07/2014**

WORK EXPERIENCE

Perspective1 LLC | Data Engineer | Tampa, FL — **02/2025 to Present**

- Developed and deployed a full-scale work order management system using AI automation, microservices, and AWS, improving operational reliability and system scalability.
- Designed and implemented data pipelines with Apache Airflow, AWS Glue, and ETL workflows to automate data ingestion, and transformation for business analytics and reporting.
- Engineered a data-driven lead tracking platform leveraging Google Maps API and business analytics to provide geographical insights into customer distribution and engagement.
- Developed MCP layers between AI and CRM, finance and other business systems, to monitor real-time business updates and data aggregation pipelines for anomaly, and performance visualization in real time.
- Streamlined field service development processes through CI/CD automation in AWS, reducing dependency-related costs by 40% and improving deployment speed.
- Onboarded new Field Service Management app and integrated it with our business systems using API, build automations and workflows.
- Automated work order process using Apps Script, Gemini and AWS Lambda to extract details from emails and push data to CRM, reducing overall dispatchers workload time by 30%.

University of South Florida | Research Assistant | Tampa, FL — **05/2023 to 12/2023**

- Cyber Florida – funded research project: Developed CBoTT, a Python library leveraging unsupervised machine learning to process large-scale system logs and detect potential security threats.
- Created Tableau visualizations on student academic data using the ETL process on university student records, providing insights into student performance and diversity

Zoho | Full Stack Developer | Chennai, India — **10/2015 to 07/2022**

- Leveraged Agile methodologies to design and develop a web-based RSS Reader module, which boosted in-app content creation and user engagement by 20%, using JavaScript, Handlebars JS, Java, Jsoup, and MySQL
- Built multi-currency support for Zoho CRM, using Java, JavaScript, Ember framework, and exchange rate open APIs, allowing customers to conduct business in over 130 currencies
- Led CRM module development for Zoho Social and Zoho Bigin, overseeing future enhancement planning, issue debugging, and API integrations, which resulted in a 10% increase in new signups
- Completely rebuilt Zoho Social Collaborative module that boosted usage by 30% with a performance optimized redesigned template-based UI using Handlebar.js
- Integrated Facebook API version updates into the Zoho Social app, enhancing functionality and user experience
- Served as Security Coordinator, fixing 20+ bug bounty issues and fostering secure development practices among the development team, preventing potential data breaches and cyberattacks

SKILLS

Languages:	Java, Python, JavaScript, SQL, Shell Scripting
Databases:	mySQL, MongoDB, Redis, Cassandra, DynamoDB
Tools:	AWS, Apache Airflow, Spark, Tableau, Docker, Selenium, Git, Postman, Jira

CERTIFICATIONS

- SQL(Advanced) by HackerRank
- Certified in Cybersecurity by (ISC)²
- Python 101 for Data science by IBM
- Generative AI Fundamentals by Databricks