

# ARIVARASAN RAMASAMY

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Full-stack web developer with 6+ years of experience in various stages of software development for SaaS and CRM applications. Proficient in Java programming, SQL, data science, and machine learning

## Education

**Master of Science in Business Analytics and Information Systems** GPA: 3.9/4 Dec'23  
*University of South Florida, Tampa, FL*

Relevant Courses Distributed Information Systems, Database Management Systems, Data Visualization, Data Mining, Data Science Programming, Big Data, Project Management

**Bachelor of Engineering in Electronics and Instrumentation Engineering** GPA: 7/10 Jun'14  
*Anna University, India*

## Work Experience

**Research Assistant at University of South Florida** Jan'23 - Present

- Collaborated with professors on a \$5.65 million [Cyber Florida grant-funded initiative](#) to develop state-wide cybersecurity training for Florida government leaders, targeting enhanced cyber resilience and awareness
- Created Tableau visualizations on student academic data using the ETL process on university student records, providing insights into student performance and diversity

**Technical Lead at Google Developer Student Club** Jan'23 - Aug'23

- Developed e-board projects and presented four workshop sessions on topics such as web development, machine learning, and shell scripting, reaching over 200 students and increasing new student participation by 30%

**Member of Technical Staff at Zoho Corporation** Oct '15 - Jun'22

- Developed and launched 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
- Enabled multi-currency support for [Zoho Bigin](#), a CRM software, using Java, JavaScript, Lyte framework, and exchange rate 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 20% increase in new signups
- Boosted the usage of [the Collaborative module](#) by 50% with a redesigned template-based UI using Handlebar.js
- Integrated Facebook API version updates into the [Zoho Social application](#), a social media management software
- Improved the reliability of the Zoho Social app by adopting microservices architecture, reducing latency by 10%
- Served as Security Coordinator, fixing 20+ [bug bounty](#) issues and fostering secure development practices among the development team, preventing potential data breaches and cyberattacks

## Technical Skills

Programming Languages: Java, JavaScript, Python, SQL, Shell scripting

Databases and Statistical Tools: MySQL, Cassandra, MongoDB, Tableau, JupyterLab, PySpark, Tensorflow

## Academic Projects

### Telecom Churn Analysis - Data Mining

- Conducted Telecom Churn Analysis using Python (pandas, numpy, sklearn) and machine learning algorithms on extensive datasets from the IBM forum, providing valuable insights on customer data
- Achieved 96% accuracy in predicting churn rate by applying hyperparameter tuning and cross-validation

### Stock Price Prediction - Recurrent Neural Networks

- Predicted stock prices with 85% accuracy using Recurrent Neural Networks (RNN) and deep learning Neural Network models, processing and analyzing Yahoo finance data with Python and Scikit-learn
- Evaluated the performance of models with mean squared error, mean absolute, and root mean squared error

### Continuous Bag of Terms and Time (CBoTT) - Unsupervised Threat Hunting

- Developed CBoTT, a Python library using unsupervised ML, which enables cybersecurity analysts to process extensive text-based process audits in system logs and identify potential security threats

• [Certified in Cybersecurity by \(ISC\)²](#) • University Champion in Athletics • Certified LabVIEW Associate Developer