

# Arivarasan Ramasamy

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## Education

### Master of Science in Business Analytics and Information Systems

GPA: 3.91/4

University of South Florida, Tampa, USA

Aug 2022 - Dec 2023

Relevant Courses : Database Management Systems, Analytical Methods for Business, Data Mining, Data Visualization, Data Science Programming, Big Data, Project Management

### Bachelor of Engineering in Electronics and Instrumentation Engineering

GPA: 7.1/10

Anna University, India

Aug 2010 - Jul 2014

## Technical Skills

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Languages	: Java, JavaScript, Python, Shell script
Web Development	: JavaScript, jQuery, Ember.js, Handlebar.js, Ajax, Kafka, Struts 2
Databases	: MySQL, PostgreSQL, Cassandra, MongoDB, AWS
Tools	: LabVIEW, JupyterLab, Flask, Git, Mercurial, Tableau, Docker, REST
Libraries	: NumPy, Pandas, Scikit-learn, TensorFlow, Keras, OpenCV, jsoup
Certifications	: <a href="#">SQL(Advanced) by HackerRank</a> , <a href="#">Certified in Cybersecurity by (ISC)<sup>2</sup></a>

## Work Experience

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### Research Assistant, University of South Florida

Jan 2023 - Present

- Collaborated 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, Google Developer Student Club

Jan 2023 - Aug 2023

- Collaborated on e-board projects; 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%

### Full-stack Software Developer, Zoho Corporation

Oct 2015 - Jun 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
- Enabled multi-currency support for [Zoho Bigin](#), a CRM software, using Java, JavaScript, Ember 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 10% increase in new signups
- Boosted the usage of [the Collaborative module](#) by 30% with a redesigned template-based UI using Handlebar.js
- Integrated Facebook API version updates into the Zoho Social app, enhancing functionality and user experience
- 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

## Academic Projects

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### Telecom Churn Analysis - Data Mining [↗](#)

- Conducted customer churn analysis on extensive IBM datasets using Python, machine learning algorithms, and the scikit-learn library, providing valuable insights on customer data for a telecom company
- Achieved 96% accuracy in predicting churn rate through hyperparameter tuning and cross-validation

### Stock Price Prediction - Recurrent Neural Networks [↗](#)

- Processed Yahoo Finance data with Python and Scikit-learn, implemented Recurrent Neural Networks (RNN) and deep learning models, and achieved an 85% accuracy in predicting stock closing prices
- Evaluated model performance with mean squared error and root mean squared error

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

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