**Aditya Krrish Komarapalayam Singaravelu**

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**Education**



| **Master of Science, Computer Engineering** | **Riverside, CA** |
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| University of California, Riverside | Dec 2022 |
| **Bachelor of Engineering, Computer Science and Engineering** | **Chennai, India** |
| Anna University | May 2020 |

**Engineering Work Experience**



**Software Engineer -** NTT Data Services (Remote) Feb 2023 - Present

* Led the development of a digital platform for funeral home insurance contracts, utilizing **Java**, Mendix, and React. Integrated third-party systems via REST APIs and conducted end-to-end solutions, including testing with Selenium and user acceptance testing (UAT).
* Managed version control with Git, employed Jenkins for deployment on Apache Tomcat, and effectively communicated user feedback to the team, fostering agile development and ensuring a comprehensive, responsive application.

**Software Engineer Intern -** IpserLab LLC, Mountain View, CA Jun 2022 - Sept 2022

* Designed Python algorithm on Agile methodologies to detect and classify esca disease in vineyards consisting of CNN, Deep Neural Networks, Keras, Tensorflow, and OpenCV to help farmers assess crop health in real-time with a mobile camera image to recommend a course of action. Utilized **AWS SQS** for updating users when new sets of images are uploaded onto S3.
* Deployed Machine Learning models to AWS Sagemaker and data to Amazon S3 reducing training time by 15%.

**Machine Learning Engineer (Technology Consulting) -** Ernst & Young LLP, Chennai, India Dec 2020 - Aug 2021

* Led the development of an Optical Character Recognizer (OCR) system for invoices and IDs using ABBYY FineReader, Python, and Azure OCR in Microsoft Azure ML Studio. This streamlined data consolidation and extraction, enhancing efficiency.
* Collaborated with a multinational pharmaceutical company on SAP data migration, reducing accounting errors by 5%. Managed TV advertisement billing for consumer goods firms, utilizing SQL, Spark, **Postgres Aurora** and Alteryx to automate workflows, cutting delivery time by 30% and achieving better scalability. Recognized with the "I Am Exceptional Award" for outstanding performance.

**Software Engineer Intern -** Nokia Solutions & Networks India Pvt Ltd*,* Chennai, India Nov 2019 - Dec 2020

* Built an open-source Chat Bot combining Python, Flask, SQL-Server, and Chatterbot Library for business insights to deliver trend-based, product-specific analysis based on a Key Performance Indicator (KPI) to make business decisions.
* Retained sensitive data by eliminating software outsourcing to external vendors, helped diminish cost by 5.2% and deployed the software onto a Linux-based server.

**Software Engineer Intern** - Xuvi Technology Labs, Chennai, India Dec 2018 – Sep 2019

* Launched a mobile logistics app (EMTO) using Xamarin, MongoDB, C#, .NET, and Visual Studio. Achieved optimal freight utilization through Capacity Utilization analysis and improved routing efficiency. Released on iOS and Google Play Store via ASP.NET.
* Integrated Google Vision API for Optical Character Recognition (OCR), automating e-way bill extraction. Enabled real-time revenue data streaming via Kafka and **AWS Kinesis**, paving the way for future analysis and enhanced business operations.

**Software Engineer Intern** - SecureKloud Technologies, Chennai, India May 2018 – Jun 2018

* Provided full-stack support for the login page of the company’s website by combining **Java**, JDBC, and Apache Tomcat.
* Facilitated customer tracking software using the website to filter out potential customers to market the company's cloud services. Created test cases and performed unit testing using Selenium Webdriver methods.

**Academic Projects**



* **Novel Tracking and Routing of Deliverable Goods using Optimized Spatial Data** (Google Maps API) - Implemented a Genetic Algorithm with a revenue model that gives an optimized route to cover 8 spatial locations in less than 10 seconds, using Javascript and Google Maps API.

**Skills:** Python, C#, C++, C, Java, Microsoft SQL Server, MongoDB, Microsoft Power BI, SAP Atlas, Alteryx, Google Vision API,, Google Maps API, Amazon Web Services (AWS), Docker, Xamarin, TensorFlow, Pytorch, JDBC, Git, Tableau, Hadoop, Kafka, REST API, Jenkins, Terraform, Salt Stack,Spark, .NET, Node.js, Mendix, Selenium, Ansible, Puppet, Kafka.