

JOTHISWARAN ARUMUGAM

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Education

Florida State University

August 2023 – Present

Master of Science in Computer Science, CGPA - 3.75/4

Tallahassee, Florida

Course Work: Advanced Database Systems, Software Engineering, Computer and Network Administration

Rajalakshmi Engineering College

August 2017 – May 2021

Bachelor of Engineering in Computer Science, CGPA - 8.18/10

Tamil Nadu, India

Technical Skills

Languages: Java, Python, C, C++, HTML, CSS, JavaScript, SQL, Dart

Frameworks: Kubernetes, Flutter, TensorFlow, Keras, Numpy, Pandas, OpenCV, Bootstrap, Django, Flask

Databases: MySQL, PostgreSQL, MongoDB, DynamoDB

Tools: Git, GCP, AWS, Microsoft Azure, Docker, Jupyter Notebook, Terraform, Jenkins, Apache Kafka

Certifications: GCP 5x certified(Google Cloud - Professional Data Engineer, Professional Cloud Architect, Professional Cloud Developer, Professional DevOps Engineer, Associate Cloud Engineer)

Experience

GCP Cloud Engineer | Cognizant Technology Solutions (Hyderabad, India)

July 2021 - Aug 2023

- Drove a 40% increase in client contentment by streamlining GCP product issue resolutions with strategic solutions.
- Excelled in GCP technologies, outperforming by 20% with a 95% resolution rate in initial responses.
- Bridged customer feedback with technical teams, effectively resolving 90% of critical issues, reducing repeat concerns by 50%, and spearheading over 12 significant product enhancements.

Flutter and Website Developer | Self Employed - Freelancer (Chennai, India)

Oct 2021 - Dec 2022

- Engineered cross-platform mobile apps using Dart, achieving 20% lower maintenance costs and device compatibility.
- Managed and delivered 10+ custom website projects, achieving 100% client satisfaction and a 25% increase in revenue.
- Enhanced multiple backends with Airtable and Firebase, boosting admin functionality and operational efficiency by 30%.

Machine Learning Intern | Verzeo (Hyderabad, India)

May 2020 - July 2020

- Optimized machine learning models employing Regression, Classification, and Ensemble techniques, achieving a notable 15% increase in prediction accuracy.
- Utilized Pandas for advanced data cleansing and analysis, achieving a 25% improvement in data quality for modeling.
- Applied EDA and data visualization strategies to streamline model development, boosting project efficiency by 10%.

Projects

MDUAL Outlier Detection | Java, Eclipse, Apache Kafka, Object-Oriented Programming

Nov 2023

- Engineered a real-time data processing application in Java and OOP, based on the "Multiple Dynamic Outlier-Detection from a Data Stream by Exploiting Duality of Data and Queries" framework, processing over 1 TB of data daily
- Implemented with Apache Kafka, managing data streams at 8,000 messages/second for realistic scenario simulation.
- Enhanced accuracy of a dynamic outlier detection algorithm by 30% through careful refinement and optimization; executed rigorous testing and validation processes to ensure robust performance and reliability.

Tweet Insight Tracker | Python, Django, HTML, CSS, Bootstrap, GCP(Pub/Sub, Data Studio, GAE, BigQuery)

Aug 2022

- Developed an elastic application for real-time sentiment analysis of trending movies and songs using GCP services.
- Implemented a routine to fetch and store 1000 tweets at a time in BigQuery, facilitating data display in DataStudio.
- Employed Dataflow for resource autoscaling, cutting response time by 50%.
- Evaluated web application scalability under 10,000 simulated user requests using Apache Beam.

Face Mask Compliance Monitor with Auto-Alerts | Python, CNN, MobileNet, Keras, Tensorflow, GCP

Sept 2020

- Developed a Python GUI application for mask detection using deep learning, processing 500+ hours of footage.
- Optimized for integration with CCTV and embedded systems, enhancing monitoring efficiency by 40%.
- Leveraged GCP for data management, boosting neural network training to 97.6% accuracy in mask detection.

Leadership / Extracurricular

Lions Club International

Dec 2021 – June 2023

LCIF Co-ordinator

- Pioneered a large-scale go-green initiative resulting in the plantation of over 10,000 trees and successfully executed multiple blood donation drives in Chennai.
- Oversaw the strategic management of donor funds, ensuring effective aid to underprivileged groups.
- Orchestrated comprehensive awareness and fundraising campaigns targeting health issues and community support.