

ADHITHYAKRISHNA SRINIVASAN

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EDUCATION

- SUNY, University at Buffalo** Master of Science, Computer and Information sciences August 2019 - December 2021
Algorithms for modern computers, Object-oriented design, and analysis, Distributed systems, Software engineering concepts, Blockchain development.
- KCT, College of technology** Bachelor of Engineering, Computer science May 2012 – May 2016

TECHNICAL SKILLS

Programming languages: JavaScript (ES6), Java, Python, C++.

Frontend Frameworks: React, GraphQL, HTML, CSS, jQuery, React Native.

Backend Frameworks: Hadoop, J2EE, Spring boot, Node.js, Redis, Apache Solr, Apache zookeeper, Junit 5, AWS.

Databases: SQL, MySQL, MongoDB.

Operating System: Windows, Unix based – Linux and macOS

WORK EXPERIENCE

- Skava Systems - Software development Engineer** - Tamil Nadu, India June 2016 - June 2019
- Achieved a **12%** increase in product search accuracy by engineering migration tool using the **Spring framework** to index around **2 million** product data from the **MySQL** database into **Apache Solr**.
 - Slashed response time by **20%** by optimizing the code and rerouting legacy rest APIs to fetch information from the **Solr** server instead of **MySQL** DB, reducing the recurring database calls.
 - Planned and employed a test-driven development approach to develop restful microservices using **Spring framework**, **MySQL database**, **OAuth2** for authentication and, and **Apache Solr** for caching.
 - Reduced page load time by **50%** from **4 seconds** to **2 seconds** by designing and developing jQuery plugins.
- Skava Systems -Software Engineer Intern** - Tamil Nadu, India January 2016 - June 2016
- Engineered a configuration based modular web scraper using **Node.JS** and **Cheerio** to dynamically retrieve product information of up to **5 websites** and store them into a MongoDB database.
 - Created an end-to-end responsive wedding registry e-commerce website using HTML5, CSS3, and jQuery.
 - Followed WCAG 2.0 guidelines to convert an existing e-commerce website to **ADA** compliant websites.

PROJECT EXPERIENCE

- Amazon dynamo based key-value storage** – [Android studio, Java, Sockets, SQLite DB] - <https://git.io/JUn1f>
- Engineered a distributed key-value storage system capable of performing data partitioning, data replication, and automatic failure recovery while guaranteeing availability and linearizability for up to 5 parallel connections.
- Distributed messenger application** - [Android studio, Java, Sockets, SQLite DB] - <https://git.io/JUn1r>
- Created a distributed android chat application supporting up to 5 simultaneous connections providing FIFO, total ordering guarantees, and concurrent storage, retrieval of messages using **SQLite DB**.
- Tweet analyzer** - [Node.js, Solr, Java, JavaScript] - <https://git.io/JUn08>
- Developed an End-to-end data analysis website using **JavaScript** and **D3.js** for data visualization. This team project focused on data collection (**20k tweets**), content ingestion, sentiment analysis of political rhetoric.
- Saavn stream** - [Node.js, React, Redis, Linux] - <https://git.io/JUn0S>
- An Opensource music streaming backend service built using **Nodejs** and **Saavn API**. Slashed data load time from **2 seconds** to **0.7 seconds** by utilizing Redis as a caching layer.
- Dev Journal** - [Go, JavaScript, HTML5, CSS3] - <https://adhithyakrishna.github.io/articles>
- Designed and developed a tech website to serve as a journal to track my learning and provide solutions to competitive coding problems.

LEADERSHIP EXPERIENCE

Virtusa - President - Initiated and presided over a student tech club. Collaborated with a team of 20 students to create an online magazine focused on emphasizing the importance of web and device security to non-tech people.