

Harrish Murugesan

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EDUCATION

Master of Science in Computer Science | University of Texas at Arlington | Arlington, Tx | May 2021 | 3.3

Bachelor of Technology in Computer Science and Engineering | Amrita Vishwa Vidyapeetham | Tamil Nadu, India | May 2019

SKILLS

Proficient: Java, Python, JavaScript, HTML5, CSS3, Node.js, Flask, SQL, SQLite, MySQL, MongoDB, Firebase, Git, Docker, AWS, Django, Laravel.

Exposure: C++, R, Solidity, Cassandra, Hadoop, Pig, React, Selenium, Bootstrap, JUnit, JMeter, Tableau, redis.

EXPERIENCE

Software Developer Intern | Arokia IT LLC | Dallas, TX | Jun 2020 - Aug 2020

- Aided in building and deploying multiple clients' websites on AWS and contributed to AWS Solutions.
- Performed automation testing using Selenium WebDriver and contributed new solutions of automated tests using pre-existing test cases.
- Cloud technologies & Testing Concepts learned: AWS S3, AWS EC2, Load Balancers, Auto Scaling, VPC, XPath, REST APIs, Selenium.

Undergraduate Student Researcher | Amrita Research Lab | Tamil Nadu, India | Jan 2018 - May 2019

- Conducted Big Data Analysis on Revenue-based attribution modeling for online advertising under Prof. Subathra.
- Performed attribution modelling, dominance analysis, parametric/semiparametric modelling, relative weight analysis, RFM, etc.
- Tech Stack: Python, Flask, SciKit-Learn, Hadoop, AWS, Pandas, NumPy, plot.ly.

PROJECTS

Proximity Marketing | Data Science, Machine Learning, Mobile & Web Applications | Cisco thingQbator Lab | May 2019

- Spearheaded a team of 4 to build a product recommender system using RFM and K-Means clustering algorithms to analyze users' behavioral purchase pattern and increased click-through rate by 15% by suggesting relevant products.
- Architected an Android Application using Estimote Proximity SDK to interact with Internet of Things (IoT) devices.
- Tech Stack: Java, Python, Flask, Pandas, scikit-learn, NumPy and Cassandra | Link: http://bit.ly/github_ProxMarketing.

IoT-Enabled Smart Dining Environment | Hardware, Mobile & Web Applications | Cisco thingQbator Lab | February 2019

- Design and Construct a physical device consisting of a mobile tablet, a combination of 4 sensors, and capable of rotating 360 degrees based on touch sensor input.
- Architected an Android Application using Java for users to place orders, play tic-tac-toe and handle payments.
- Created a Full Stack Web Application using Django Python Framework for the restaurants to manage orders.
- Tech Stack: C++, Java, Python, JavaScript, HTML, CSS, Node.js, MongoDB | Research Paper: http://bit.ly/ResearchPaper_SmartDining.

UTA "Mobile" Restaurant App | Mobile Application | May 2020

- Devised an Android Application for patrons to place, manage and cancel orders and for admins to oversee orders and schedule vendors.
- Tech Stack: Java, MySQL | Links: http://bit.ly/Github_UTAMobileRestaurant, http://bit.ly/Youtube_UTAMobileRestaurant.

Sorting Algorithms Deep Analysis | Web Application | December 2019

- Built a Web Application assessing, analyzing, visualizing 4 different sorting algorithms based on their respective runtimes.
- Tech Stack: Vue.js, HTML, CSS | Link: http://bit.ly/Github_SortingAlgo.

Aarakshan - Railway Reservation System | Mobile, Web & GUI Applications | May 2019

- Built an Android application and Web application for patrons to manage their reservation, and Python GUI for admins to manage patrons.
- Tech Stack: Java, Python, JavaScript, HTML, CSS, Node.js-Express, PostgreSQL | Link: http://bit.ly/Aarakshan_Github.

OCR Handwriting Recognition | Machine Learning | May 2020

- Built an OCR machine learning engine that recognizes handwritten numbers and performs basic mathematical operations using KNN algorithm for classification and regression with a 92.77% accuracy.
- Tech Stack: Python, scikit-Image, OpenCV and NumPy | Link: http://bit.ly/DApp_HarrishM.

Election DApp w/ Ethereum Blockchain | Blockchain & Cryptocurrency | December 2020

- Architected a Voting app with Smart Contracts using Solidity and constructed a distributed Web application using React Web Framework.
- Tech Stack: Solidity, React, HTML, CSS, Ganache, Truffle | Link: http://bit.ly/DApp_HarrishM.

INVOLVEMENT

Keynote Speaker | TedxUTA 2020

- Spoke about Psychology behind UI/UX design to a live audience of 1.7k | Link: http://bit.ly/TedxTalk_HarrishM.