

Vignesh Thiagarajan

7421 Frankford Rd., Dallas, TX | 4695713764 | vignesh@utdallas.edu | [LinkedIn](#) | [Github](#)

EDUCATION

Master of Science in Computer Science – Data Science Track **Graduated – May 2021**
The University of Texas at Dallas – GPA 3.85/4

Bachelor of Technology in Electrical and Electronics Engineering **Graduated – May 2018**
Amrita University – GPA 8.64/10

TECHNICAL SKILLS

Programming Languages :	Python, Java, R, C, C++, Scala, JavaScript, PHP, Shell
Web Languages :	HTML5, CSS3, Bootstrap, AJAX, JQuery, REST, Node.js, Angular 8, JDBC
Databases :	MySQL, Oracle DB, NoSQL (MongoDB), PostgreSQL
Big Data Technologies :	HDFS, Apache Spark, Apache Hive, Apache Kafka, Amazon S3, Amazon EMR, Databricks
Tools/IDEs :	Git, Ansible, Docker, Jira, Jenkins, VS Code, PyCharm, IntelliJ

WORK EXPERIENCE

Software Engineer – Cadence Design Systems, Burlington MA. *NOV 2021 – Present*

- Working in a DevOps team responsible for managing the builds and releases for one of Cadence’s flagship products.
- Wrote Python scripts for user management and administration.
- Helped with configuration management of development servers and systems.

Software Engineer - Apkudo, Dallas TX. *JUL 2021 – NOV 2021*

- Developed features and improved workflows in the supply chain consisting of autonomous robotic lines using Python and PostgreSQL.
- Debugged and fixed various issues in a fast-paced work environment. Communicated with clients, provided support and developed software according to real-world requirements.
- Released fixes through deployments to Linux and Windows servers and managed configurations using Ansible.

Software Engineer Intern - Arm, Austin TX. *JAN 2021 – APRIL 2021*

- Aided in optimizing computational resources used in running verification tools by developing Python scripts.
- Developed Dashboards for internal use using Dash Plotly framework and MySQL which provide an overall layout of various system processes and drive technical decision making. Created tests with Pytest to test dashboard features.
- Trained ML models on various available data to solve other optimization problems and make analysis.

Data Engineer Intern - ANSYS Inc, San Jose CA. *JAN 2020 – APRIL 2020*

- Helped Automate the processing of large amounts of unstructured data through data pipelines using Python and Apache Spark (PySpark).
- Created Cron jobs to process unstructured data into Azure Databricks and create/update Delta tables
- Created dashboards with PowerBI and Databricks to help product managers easily consume the data and gain business insights. Documented the workflows and all major changes.

ACADEMIC PROJECTS

Online Music Store (Tech Stack: Node.js, Express.js, MongoDB, JavaScript, Restful web service) *APR 2021*

- Developed full-stack web application of an online music store which gives CRUD privileges to the admin. Provided functionalities to perform authentication, validation, filtering search and updating information.

Spark Streaming Twitter Sentiment Analysis (Tech Stack: Scala, Spark, Kafka, Kibana, ElasticSearch) *DEC 2019*

- Created a Spark streaming application that continuously read data from Twitter about a topic using Apache Kafka. Sentiment Analysis were performed on tweets with a particular topic attached.

Library Management System (Tech Stack: Java, MySQL, jQuery, HTML, CSS) *APR 2019*

- Implemented a fully functional library management system to borrow books, update users and calculate fines.
- The GUI application was developed using jQuery and interfaced with MySQL using JDBC connector.