

Aryan Gupta

(480)-937-6074 | agupt245@asu.edu | [linkedin.com/in/aryan-gupta16/](https://www.linkedin.com/in/aryan-gupta16/) | aryan16.github.io/ | Open to Relocation

EDUCATION

Arizona State University | Master's in Computer Science | Tempe, AZ | **GPA: 4.0/4.0** **Aug 2019 – May 2021(Expected)**
Graduate Teaching Assistant – Data Structures and Algorithms (CSE 310)

Vellore Institute of Technology | Bachelor's in Computer Science | India | CGPA: 8.43/10 **Jul 2013 - Apr 2017**

TECHNICAL SKILLS

Programming Languages: Java, Python, C++, Typescript, JavaScript, ABAP, SQL, HTML, CSS
Frameworks and Others: AWS, Flask, GIT, Spring Boot, ExpressJS, Node.js, React, Redux, VanillaJS, ES6, Django, Docker, Redis, Dagger, Junit, Predix, SAP ERP, Mockito
Distributed Systems/Databases: Apache Spark, DynamoDB, PostgreSQL, MYSQL, Hadoop

PROFESSIONAL EXPERIENCE

Amazon, USA – Software Development Engineering Intern **May 2020 - Aug 2020**
Workflow Orchestration Tool

- Designed and developed a full-stack application to connect different Amazon Seller Central pages owned by different teams and guided sellers on these pages to do required operations. Increased the user activity from 54% to 85%.
- Created **AWS IAM** secured microservices using API Gateway and released them using automated CI/CD pipelines
- Implemented Serverless Lambda functions which consumes data from DynamoDB tables.
Technologies Used: Spring Boot, AWS Lambda, AWS DynamoDB, AWS API Gateway, Docker
- Achieved a code coverage of more than 90% by writing junit test using **Mockito**
- Solved a complex frontend latency issue by designing light weight **vanillaJS web components** on top of **React** apps.

General Electric Digital, Bangalore – Software Engineer **Jul 2017 - Jul 2019**
Smart Warehouse

- Developed a full-stack application to automate the process of handling order entries in the warehouse using **Flask (Python), ReactJS, Redux, PostgreSQL, Predix**. Reduced the manual efforts of warehouse workers up to 55%.
- Migrated from third-party application to an in-house product and deployed in the production environment of 3 plants of GE.
- Mentored 2 summer interns with technical issues and framework understanding.

Chatbot for ERP

- Led and architected the development of smart bot to enhance the user experience by providing order information from different ERPs using **Node.js, Dialogflow, OData (Restful)**
- Integrated an in-memory caching service '**Redis**' to improve the latency and hosted the application on Predix cloud.
- Started as proof of concept and end up deploying in the production systems.

Data Migration in SAP

- Worked in the data migration team of a Retrofit project and managed to migrate data from legacy systems to SAP systems.

General Electric Digital, Bangalore– IT Intern **Jan 2017 - Jun 2017**

LCS Tracker

- Created a portal which helped users to track the LCS (Life Care Services) by developing pivot tables from excel files.
- Designed a feature to predict the delivery of the orders with the help of pandas and scikit-learn libraries of python.
- Eliminated the manual efforts by 42% with this automation.

ACADEMIC PROJECTS

Database Management System Implementation (ASU – Spring' 20)

- Transformed Minibase (a relation database) to a **Google BigTable** (NoSQL) type database.
- Leveraged in-memory data structure to optimize batch insertion and minimized disk-page access significantly.
- Optimized Heapfile page layout and B+ Tree index structure to support flexible data clustering and querying.

Geospatial Cluster Computing System (ASU – Fall' 19)

- Implemented spatial operations on a distributed Hadoop-spark cluster to determine hotspots within a given boundary on New York City Taxi Trip Dataset. Technologies Used: **Python, PostgreSQL, Apache Spark, Hadoop, AWS**

Meal Prediction – (ASU – Fall' 19)

- Innovated a solution to predict an ideal mealtime for a diabetic patient for a given time-series data.
- Implemented various machine learning algorithm like Decision Tree, Neural Network.

LEADERSHIP & AWARDS

- Runner up in ERPHack, a hackathon organized by GE Digital (total teams – 40)
- Led a club GE ML-AI (Machine Learning and Artificial Intelligence) and received a bravo award for this initiative.