

# Aryan Gupta

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## 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: Java, Spring Boot (Dependency Injection), AWS Lambda, AWS DynamoDB, AWS API Gateway**
- 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**  
**Warehouse Automation**

- 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.
- Implemented several functionalities of database such as **buffer management, disk management, multi-level indexing, Joins** and many more.

### 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.