GOURAV AGRAWAL

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EDUCATION

Arizona State University (ASU) | Master's in Computer Science | Tempe, AZ | 3.78/4

May 2021 (Expected)

Related Courses: Database Management System Implementation, Data Processing at Scale, Foundations of Algorithms

Vellore Institute of Technology | Bachelor's in Computer Science | India | 8.55/10

May 2017

TECHNICAL SKILLS

Java, Python, JavaScript, AWS (Certified Developer Associate), Node.js, HTML, CSS, SQL, Angular, ReactJS, Redux, Spring, Apache Ignite, Apache Spark, REST APIs, GraphQL, Git, MySQL, PostgreSQL, MongoDB, Terraform, Linux, Jenkins, Sonar, JIRA, Agile

WORK EXPERIENCE

University Technology Office | Data Analyst | Arizona State University

Nov 2019 - Present

- Working alongside the Data Governance team to help build ASU data catalog platform in Collibra.
- Developed automated jobs for ingesting metadata from Amazon Redshift, Aurora, Oracle and S3 data lake using Python.
- Used **terraform** scripts (Infrastructure as Code tool) to automate the build and deployment process of AWS **Lambda** functions.
- Deployed a serverless web app using AWS Amplify and React to provide an interface for interactions with the S3 bucket.

BlackRock | Software Engineer | Gurgaon, India

Aug 2017 - Jul 2019

Snapshot Publisher

- Built a web application from ground up using **Angular 6**, **Java** and **Spring** which replaced 2 legacy production applications.
- Researched and Implemented **Apache Ignite** as a distributed in-memory cache, leading to more than <u>10x the upsurge in performance and speed</u>.
- Integrated Ignite with the **ag-grid** server-side row model to perform dynamic on-the-fly filtering, sorting and joins operations.

Snapshot Cache

- Deployed **RESTful** web services using **Spring Boot** and oversaw the load testing and performance tuning for the API.
- Reduced the response time of API from 8-35 secs to 0-3 secs by using composite indexing and SQL query optimization techniques.

Aladdin for Corporate Treasury (aCT)

- Fast-tracked the front-end development of aCT, meant to replace the 3rd party tool, in turn saving approx. \$1 million yearly.
- Designed wireframes and released multiple screens and features like bulk file upload and admin dashboard as a part of it.

Snapshot Controller

- Automated the manual efforts of deploying financial metrics reports by developing a **Spring Integration** based application, reducing 45-man hours of work monthly. Further, engineered the application to work as a generic task dispatcher framework.
- Awarded 'Outstanding Performer' (<5%) consecutively for two years at BlackRock.

BlackRock | Software Engineer Intern | Gurgaon, India

Jan 2017 - Jul 2017

- Developed reusable web components using Angular along with **Redux** and Spring MVC and used **Webpack** to bundle files.
- Integrated **HighCharts** and **D3.** is interactive visualizations for displaying analytics/insights in the portfolio performance.
- Set up a monorepo and enforced GitFlow Workflow to unify Jenkins build for all app-owners.
- Ensured more than 90% code coverage for both frontend and backend using Jasmine/Karma and JUnit.
- Runner-up (out of 20 teams) in a hackathon, for developing a game which makes learning finance simple and fun.

HACKATHON & ACADEMIC PROJECTS

Traffic Flow Prediction | Statistical Machine Learning | ASU

Fall' 2019

- Prototyped a 2-step short-term traffic flow prediction model using deep neural networks like Stacked Auto Encoders and LSTM.
- Collaborated with 2 others to extend the model to withstand shocks like accidents, lane closure, weather etc.

The Pac-Man Projects | Intro to Artificial Intelligence | ASU

Fall' 2019

Formulated array of **AI** techniques including informed state-space search, probabilistic inference, reinforcement learning, perceptron algorithm and neural network models in the multi-agent Pacman world. <u>Evaluated with a 100% grade.</u>

Meal prediction using CGM dataset | Data Mining | ASU

Fall' 2019

- Developed a model to predict meal intake of a type-1 diabetic patient using continuous blood glucose level monitor data.
- Extracted meaningful features from the time-series data and achieved an accuracy of 77% using supervised clustering technique.

Aladdin Briefcase – Global Hackathon, BlackRock

April 2019

• Asia-Pacific finalist (out of more than 100 teams) for automating and digitalizing the client reporting process for Institutional clients.