AMLAN ALOK

amlanalok.work@gmail.com | +1 (470)721-8870 | www.amlanalok.com | www.linkedin.com/in/amlanalok

EDUCATION

University of Texas, Arlington (GPA - 4/4)   *Jan 2021 - May 2023*
Master's in Computer Science (Specialization in Artificial Intelligence and Database)

SKILLS

- **SERVERLESS & AWS:** Python | AWS Lambda | Step Function | S3 | EC2 | CloudWatch **ETL:** AWS Glue | Spark
- **Backend:** Java | Kotlin | Spring Boot 2 | Gradle | Maven | Hibernate ORM 5 | Mockito 5 | Docker
- **Frontend:** Javascript | ReactJS | HTML5 | CSS | Bootstrap 4 | Angular 5 | **CI/CD:** Bamboo | Jenkins
- **Database:** SQL | AWS RDS | **Platforms:** AWS | GCP | PCF | **Scripting:** Bash | **Monitoring:** Splunk
- **ML/ Data Science:** Numpy | Tensorflow | PySpark | Pandas | Sklearn | **Tools:** Git | Jira | Confluence | Postman
- **Methodologies:** Scrum Agile | TDD | Pair Programming | RESTful API | Microservice | Serverless

WORK EXPERIENCE (3 Years 3 Months)

Vasquez Pvt Ltd   *May 2021 - Aug 2021*
Full Stack Developer | Internship | Full-time | Remote

Fellowship HealthShare - Tech Stack - Microservice, Spring Boot 2, Java, RESTful API, ReactJS, SQL
- Developed RESTful APIs and frontend components for the Admin portal and product pricing page of the website. Link - **https://www.fellowshiphealthshare.org/#/home**

Cognizant Technology Solutions (American Technology MNC)   *Feb 2018 - Dec 2020*

Client: Telstra (Australia's largest telecom company by market share)   Oct 2018 - Dec 2020
Payments Team | *Software Developer (ETL, Serverless, Backend) | Full-Time | Bangalore, India*

Dispute Engine - **Tech Stack** - Python, Lambda, Step Functions, Spring Boot 2, Java, SQL, Rancher, Splunk
- Developed batch job to automate payment dispute resolution process which reduced manual work for disputes by 70% for customer service agents and saved over 1 million AUD per annum.

ETL Job - Tech Stack - Python, Glue (ETL), Lambda, S3, SQL, SFTP, Splunk, Terraform
- Designed and implemented solution to fetch, clean and store transaction, dispute reports provided by payment gateway in data warehouse and lake daily. Custom reports were made for many teams.
- Customer Migration - Developed solution to move and store millions of customer data from previous payment gateway (BillPay) to a data warehouse maintained by our team.

Pytest Automation - Tech Stack - Python, Boto3, Pytest, AWS
- Automated test suite for regression and end to end testing of batch jobs.

Full Stack Developer | Full-time | Chennai, India   *Feb 2018 - Sep 2018*

Project C-klub - Tech Stack - PCF, Microservice, Spring Boot 2, Java, RESTful API, ReactJS, SQL
- Internal company website to find employees who volunteer to teach in skill based training events. Developed the frontend and backend of the Events Display page.

ASSISTANTSHIPS

Graduate Teaching Assistant - CSE 5330: Database Systems - Prof. Bhanu Jain	Jan 2023 - Present
Graduate Teaching Assistant - CSE 6363: Machine Learning - Prof. Bhanu Jain	Aug 2022 - Dec 2022
Grader - PHYS 3315: Astrophysics and Cosmology - Prof. Nilakshi Veerabhatina	Aug 2021 - May 2022

PROJECTS/ CERTIFICATIONS

- Cognizant Academy Full Stack Engineer Program Certificate (2020)
- Developed AI agent to play Max Connect 4 using depth limited minimax search with alpha-beta pruning
- Implemented several ML Algorithms from scratch without using ML libraries - Decision Tree, Bagging, Hierarchical Clustering, Linear Regression, Gaussian Naive Bayes, KNN
- Housing Portal Website - **Tech Stack -** Spring Boot 2, Java, API, ReactJS, SQL, Socket.io, NodeJS
    - Designed database, implemented chat messaging, dashboards, charts, login, sign-up, e-mail notifications.

Machine Learning, Big Data and Full Stack projects available at https://github.com/AmlanAlok