AMLAN ALOK

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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, **OS:** Linux, Mac
- **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, REST APIs

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 (American Technology MNC) (Australia's largest telecom company by market share)   Oct 2018 - Dec 2020
Payments Team | *Cloud 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/ CONTRIBUTIONS

- 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.
- https://stackoverflow.com/questions/60190313/can-aws-glue-connect-to-a-remote-server-via-sftp

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