

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
- **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 (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/ 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>