

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
- **Backend:** Java, Kotlin, Spring Boot 2, Gradle, Maven, JPA, Hibernate ORM 5, Mockito 5, Docker, Flask
- **Frontend:** Javascript, ReactJS, HTML5, CSS, Bootstrap 4, Angular 5
- **ETL:** AWS Glue, Spark **CI/CD:** Bamboo, Jenkins **IAS:** Terraform **Monitoring:** Splunk
- **Database:** SQL, AWS RDS **Platforms:** AWS, GCP **Scripting:** Bash **OS:** Linux, Mac
- **ML/ Data Science:** Numpy, Tensorflow, PySpark, Pandas, Sklearn **Tools:** Git, Jira, Confluence, Postman
- **Methodologies:** Scrum Agile, TDD, Pair Programming, Microservice, Serverless, REST APIs

EXPERIENCE (3 Years 3 Months)

Vasquez Private Ltd (HealthShare Startup)

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 Admin portal and product pricing page. ([Link](#))

Telstra (Australia's largest telecom company by market share)

Oct 2018 - Dec 2020

Cloud Developer | Payments Team | Contractor | Full-Time | Bangalore, India

1. **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.
2. **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 database. Custom reports were made for many teams (Fraud, Data Lake, Data Retention and more).
 - Customer Migration - Developed solution to move and store millions of customer data from previous payment gateway (BillPay) to a database maintained by our team.
 - I had full ownership of ETL jobs and, led and managed my sub-team, provided guidance and support to junior developers. We were accountable for production bugs and fixes. We showcased our work to the leadership team.
3. **Pytest Automation - Tech Stack** - Python, Boto3, pytest, AWS
 - Automated test suite for regression and end to end testing of batch jobs.

Cognizant Technology Solutions (American Technology MNC)

Feb 2018 - Sep 2018

Full Stack Developer | Full-time | Chennai, India

Project C-klub - Tech Stack

- PCF, Microservice, Spring Boot 2, Java, RESTful API, ReactJS, SQL
- Developed the frontend and backend of the Events Display page for this internal company website to find employees who wish to volunteer to teach in skill based training events.

ASSISTANTSHIPS (3 Semesters | 12 months)

Graduate Teaching Assistant - CSE 5330: Database Systems - Prof. Bhanu Jain ([Link](#))

Jan 2023 - May 2023

Graduate Teaching Assistant - CSE 6363: Machine Learning - Prof. Bhanu Jain ([Link](#))

Aug 2022 - Dec 2022

Grader - PHYS 3315: Astrophysics and Cosmology - Prof. Nilakshi Veerabhatina

Aug 2021 - Dec 2021

ACHIEVEMENTS/ PROJECTS/ CERTIFICATIONS/ CONTRIBUTIONS

- Outstanding Graduate Teaching Assistant (2023) - Dept of CSE - University of Texas, Arlington ([Link](#))
- Cognizant Academy Full Stack Engineer Program Certificate 2020 ([Link](#))
- 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.