

# Mohammed Zeb Alam

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## EDUCATION

### New York University

Master of Science in computer science, 3.67/4.00

New York, NY

Jan 2019–Dec 2020

### Guru Gobind Singh Indraprastha University

Bachelor of Technology in Information Technology, 78/100

New Delhi, India

July 2013–June 2017

## EXPERIENCE

### Computer Science Department, NYU

Graduate Research Assistant

New York, NY

June 2019 — July 2019

- Developed module for accepting payments for **Alive educate** website from 27 countries by integrating Stripe Payments Api. (**Reactjs, Nodejs, JSX, Bootstrap**)

Teaching Assistant

September 2019–May 2020

- Worked as a Teaching Assistant for Information Security And Privacy and Operating systems.

### Ashoka Buildcon

Associate Software Development Engineer

New Delhi, India

July 2017 — Dec 2018

- Developed APIs for a process management dashboard (used at road construction sites). Also developed the android application for the dashboard. (**php, mongodb, JavaScript, SugarOrm**)

### RUK ONLINE SOLUTIONS LLP

Co-Founder

New Delhi, India

June 2015 - July 2017

- Application for accepting payments from educational institutions. Successfully affiliated with 4000 educational institutions in Delhi–NCR region and raised capital from Bhatia Associates by competing against 87 startups. (**Java, php, mysql, Javascript, html, css**)

### Ericsson

Software Developer Intern

New Delhi, India

June 2016 - August 2016

- Developed an android application for peer-to-peer sale portal taking place at the Ericsson campus. Also incorporated payments API (**Java, Php, SugarOrm, Mysql, javascript, html, css**)

### RealBox

Software Development Intern(Computer Vision)

New Delhi, India

January 2015 - October 2015

- Developed a population counter – a camera based opencv application deployed on **raspberry pi**. Deployed techniques like Blob Detection, MOG2 for background subtraction, and SVM for classification. Reduced data redundancy by 27.6% (**C++, Php, Mysql, Opencv**)

## PROJECTS AND RESEARCH

### Gofickle: University Discovery Platform(Demo Link) -> (URL)

- A serverless web app for university shortlisting. Fast Storage using Elasticsearch and DynamoDb. Developed a feature to predict users ability to get accepted using AWS sagemaker on **UCLA data using XGBoost Algorithm**. Performed Data analytics on user click Stream data (*using AWS Kinesis Stream, Amazon Firehose, AWS kinesis Data analytics, AWS crawler, AWS Athena, QuickSight*).
- (**S3, Python, dynamodb, AWS Lambda, Elasticsearch, SageMaker, API gateway, mysql**)

### Restaurant Concierge Chatbot(Demo Link)

- ChatBot for restaurant **recommendations** based on location and cuisine. A **serverless app** deployed using **AWS lambda**, with **YELP API** for restaurant data and **fast storage API** using **ElasticSearch** and **Dynamodb**. We used **AWS Lex** for language processing and **AWS SNS** for delivering notification.

### Smart Photo Album

- Photo album that performed image detection using **AWS Rekognition**. **ElasticSearch** is used for storing tagged data deployed over a **VPC(Virtual Private Cloud)**. **S3 event API** used as a trigger. Voice Search performed using **AWS Transcribe**. (**AWS Lambda, API Gateway, AWS lex, AWS Transcribe**)

### Novel Approach For Emotion Detection Using Text(LINK)

- Developed a Python application that used various classification algorithms(Naive Bayes, Support vector machine, Logistic Regression) to detect 5 types (**sadness, love, fear, anger, joy and surprise**) of emotions using textual data scraped from Twitter. (**Python**)

### Stock Market Prediction Using SVM Employing various Kernel(LINK)

- Implemented SVM classification approach for stock prediction on a data set of S&P 500 and New York stock exchange. Used RBF kernel, Linear Kernel, Polynomial Kernel, Sigmoid Kernel to compare efficiency with RBF kernel having highest efficiency of 73.9%. (**Python**)

## SKILLS

**Languages:** Python, Java, C++, Php, SQL, JavaScript, ReactJs, Haskell, Prolog, Julia

**Backend:** REST-API, Git, Docker, Kubernetes

**Cloud:** AWS (KVS, KDS, SNS, SQS, EC2, S3, Lambda, API, Rekognition, Lex, crawler, FireHose, Transcribe)

**Databases:** MySQL, MongoDB, DynamoDB, ElasticSearch, Kibana