

# Sakib Ahmed

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## Education

### New York University

September 2018 - January 2023

B.A. in Computer Science and Economics (Theory)

New York, NY

Relevant Courses: Algorithms, Artificial Intelligence, Data Structures, Machine Learning, Operating Systems

GPA: 3.2

## Experience

### Amazon

May 2022 - August 2022

#### Software Development Engineering Intern

Seattle, WA

- Developed and deployed a high-performance Lifecycle State Management (LMS) metrics collection REST API, leveraging *S3*, *EC2*, *DynamoDB*, and *Lambda* to determine the average time spent in each lifecycle state, enhancing operational insights for distribution centers
- Created an intuitive dashboard using *Amazon API Gateway* and *React*, resulting in ~33% faster analysis of key performance indicators and a 40% increase in user engagement from distribution center associates
- Achieved 100% test coverage through thorough unit and integration testing, reducing production defects and enhancing system stability
- Collaborated with cross-functional teams to identify critical customer use cases, leading to improved alignment of LMS API with customer needs
- Implemented Service Level Agreement (SLA) metrics using *CloudWatch*, ensuring 99.9% uptime and availability, resulting in an increase in system reliability and an enhanced user experience

### New York City Department of Transportation

June 2019 - August 2021

#### Software Developer Intern

New York, NY

- Contributed to the development of a new version of the employee data management system within a Scrum team, resulting in a 30% reduction in data entry errors
- Utilized *JavaScript*, *React*, *Material UI*, and *Redux Toolkit* to develop a high-performance Single Page Application (SPA) frontend, leading to improved page load times by 130% and enhanced user satisfaction
- Engineered a modern and user-friendly interface that facilitated streamlined data entry, updates, and access for employees, leading to a 20% decrease in time spent on data management tasks

## Projects

### PinkBird - Web application that allows users to scan barcodes and receive product information

Fall 2022

- Implemented a REST backend with *MongoDB*, *Express.js*, *Node.js* and *Axios* to construct products as custom schemas containing Pink Tax information
- Integrated the Scanbot SDK API into a *React* based frontend to transform device cameras into barcode readers

### Song Classification Model - Multi-class logistic regression model with clustering

Spring 2021

- Worked with Spotify API reporting audio features from 50,000 random songs (e.g., loudness, tempo, danceability), enabling the prediction of song genres with an accuracy rate of 80%
- Conducted in-depth analysis by calculating AUC values, generating ROC Curves, heatmaps, and confusion matrices, resulting in a comprehensive report that highlighted significant findings and their implications for accurate genre prediction models

## Skills

Languages: Python, Java, JavaScript/HTML/CSS, SQL, Swift

Frameworks and Libraries: React, Material UI, Redux, Numpy, Pandas, Sklearn

Tools and Services: Git, Jira, Azure DevOps, Docker, EC2, Kubernetes, Lambda, S3, API Gateway, CI/CD