

Tajwar Rahman

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EDUCATION

City College of New York – *Bachelor of Science in Computer Science*

Expected Graduation: June 2024

Relevant Courses: Data Structures, Algorithms, Operating Systems, Object-Oriented Programming, Database Management System

SKILLS

- **Programming:** Python, JavaScript, Typescript, Golang, Java, SQL, Bash, C++, Swift, C#, GraphQL, Kotlin, Shell
- **Frameworks:** React, React Native, Nodejs, Next.js, Angular, Express, SwiftUI, Cypress, Jest, Jenkins, TensorFlow, FastAPI
- **Software:** AWS, Azure, GCP, Git, Docker, Kubernetes, AI/ML, Redis, Terraform, HTML/CSS, RestAPI, Jira, Linux
- **Certificates:** AWS Cloud Practitioner, Google Cybersecurity Professional, Machine Learning with Python

EXPERIENCE

Capital One

McLean, VA

Software Engineer Intern, Enterprise Data and Machine Learning Team

June 2023 – August 2023

- Spearheaded the development of a bootstrapped platform to streamline the Unusual Activity Report (UAR) data collection process
- Designed and deployed a scalable solution that automated processes and decreased manual labor by 30%
- Enabled real-time monitoring system, which led to a 20% increase in identifying potential threats and enhancing fraud detection
- Conducted 11 unit tests on Next.js components and HTTP requests to the API to validate reliability, using Cypress and Jest
- Executed rigorous performance, data processing, and frontend integration tests on 2 AWS Lambda functions using Behave
- Worked closely with stakeholders from Compliance, Risk Management, and IT to increase user engagement by 9% worldwide

MetLife

New York, NY

Software Engineer Intern, Frontend and DevOps Team

May 2022 – December 2022

- Successfully migrated critical components and services, in AngularJS, to Angular 13, decreasing latency by 40%
- Optimized pipelines in Azure DevOps to automate deployments using shell scripts, cutting deployment cycles by 2-3 minutes
- Innovated a new automated onboarding process for new employees, estimated to save over \$300K in operational costs
- Played a key role in integrating proactive notifications into enterprise-wide chatbot, improving communication for 43K employees

Headstarter

New York, NY

Tech Lead

March 2022 – December 2022

- Collaborated with the CEO and CTO to reengineer backend architecture redesign, reducing AWS resource costs by 80%
- Led the refactoring initiative of the legacy codebase and implementing AWS CDK, boosting efficiency by 60%
- Decreased video loading time by 66% by introducing caching such as CloudFront in media related content
- Orchestrated a successful platform launch, resulting in the acquisition of over 500 users and generating over \$20K in revenue

Headstarter

New York, NY

Founding Engineer

August 2021 – March 2022

- Developed an ed-tech platform in 45 days for company's launch in October, using React, Express, and AWS
- Streamlined custom React components, minimizing total number of clicks by 8% and improving average page navigation time
- Expedited project timelines by 30% using AWS services, including Cognito, EC2, S3, SES, Lambda, and DynamoDB
- Pioneered a robust paywall and subscription modal using Stripe, capable of handling 15K users per month

Slingshot

New York, NY

Machine Learning Research Intern

July 2020 – May 2021

- Initiated project to improve device security using a one-time continuous authentication system, ensuring persistent user validation
- Released a mobile app using React Native and Firebase to collect stylometric data which was used for research and training models
- Fine-tuned 16 machine learning models for text analysis that distinguishes users based on their writing patterns with 97% accuracy
- Integrated Cloud Functions to preprocess data, optimizing it for real-time training and enhancing accuracy in user identification

PROJECTS

Khuda Lagche | *Next.js, Typescript, AWS, Python, FastAPI, PyTorch, Terraform*

- Leveraged Next.js, FastAPI, and AWS to build a personalized recipe and blog recommendation app
- Deployed 2 machine learning models on ElasticBeanstalk that recommends recipes to the user and generates recipes from images

Learning Made Simple | *Next.js, Typescript, Amplify, Express, Cypress*

- Created a learning management system for administration, tracking, reporting, automation, and delivery of educational courses
- Leveraged agile methods to develop the LMS and incorporated CI/CD pipelines for deployment and consistent automated testing