Tajwar Rahman

(646) 460-9253 • tajwarr.cs@gmail.com • tajwarrahman.com • github.com/thetajwar2003 • linkedin.com/in/tajwarrahman/

EDUCATION

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

Expected Graduation: May 2025

Relevant Courses: CodePath: Advanced Software Engineering, Data Structures, Algorithms, Distributed Systems, Operating Systems

SKILLS

- **Programming:** Strong: Python(5y), JavaScript(4y) Intermediate: Java(3y), Go(3y), C++(3y), SQL(2y), GraphQL(2y), C#(1yr)
- Frameworks: React, React Native, Nodejs, Nextjs, Angular, Express, SwiftUI, Cypress, Jest, Jenkins, TensorFlow, Remix
- Software: AWS, Azure, GCP, Git, Docker, Kubernetes, Machine Learning, Redis, MongoDB, HTML/CSS, RestAPI, Jira
- Certificates: AWS Cloud Practitioner, 100 Days of SwiftUI, Machine Learning with Python

EXPERIENCE

Software Engineer Intern, Enterprise Data Machine Learning – Capital One (McLean, VA) June 2023 – August 2023

- Spearheaded the creation of a bootstrapped platform to streamline the Unusual Activity Report (UAR) data collection process
- Leveraged cutting-edge technologies such as Next.js, Golang, and AWS and best practices to design and deploy a scalable solution, improving data accuracy and reducing manual effort by automating key processes
- Enabled real-time monitoring, anomaly detection, and predictive modeling, providing actionable insights to identify potential risks and enhance fraud detection
- Conducted comprehensive unit tests on Next.js components to ensure their reliability and functionality and on HTTP requests to the API to validate data exchange, using Cypress and Jest
- Executed tests on Lambdas, using Behave, to validate their performance, data processing, and integration with the frontend
- Worked closely with stakeholders from various departments, including Compliance, Risk Management, and IT, to iteratively enhance the platform's functionality, resulting in increased user adoption and improved efficiency

Software Engineer Intern, Frontend & DevOps – *MetLife* (New York, NY)

May 2022 – December 2022

- Successfully executed the migration of a comprehensive subset of components and services from AngularJS to Angular 13, resulting in a significant 40% reduction in latency
- Optimized build/release pipelines in Azure DevOps to automate deployments using power shell scripts, decreasing the deployment lead time by 2-3 minutes
- Engineered an innovative automated onboarding process for new hires, resulting in substantial cost savings of over \$300K
- Implemented proactive notifications within a chatbot platform utilized by over 43,000 employees, enhancing communication and information dissemination across the company

Tech Lead – *The Headstarter* (New York, NY)

March 2022 – December 2022

- Collaborated closely with the CTO to accelerate a comprehensive backend architecture redesign, transitioning from an express framework to a serverless infrastructure, which resulted in an outstanding 80% reduction in monthly AWS resource costs
- Led the refactoring initiative of the legacy codebase, migrating it to Next.js and implementing AWS CDK, boosting performance by an impressive 60%, and delivering a seamless user experience
- Introduced caching such as CloudFront in media related content to decrease video loading time by 66%
- Orchestrated a successful platform launch, resulting in the acquisition of over 500 users and generating more than \$20K in revenue

Founding Engineer – The Headstarter (New York, NY)

August 2021 – March 2022

- Developed video platform in 45 days for startup's launch in October, which had 40+ users, using React, Express, and AWS
- Streamlined user experience by creating custom React components, resulting in an 8% reduction in clicks and improved average user page navigation time
- Utilized AWS services such as Cognito, EC2, S3, SES, CloudFormation, Lambda, and DynamoDB by working alongside the backend team, which increased productivity by 30%
- Pioneered a robust paywall and subscription management system using Stripe, enabling efficient handling of 15K users/month

PROJECTS

MyGPT June 2023

- Built ChatGPT from scratch using Google SentencePiece and a baseline bigram language model, which incorporated loss
 calculation and text generation
- Constructed the transformer architecture by inserting a single self-attention block and expanding to multi-headed self-attention
- Scaled up the model by introducing variables and incorporating dropout for improved performance

QuickDrop March 2023

- Initiated the development of a cross-platform React Native application designed to optimize carpooling efficiency for dropping off friends to their respective homes
- Devised an approach to implement different maps such as Waze and Google and add users to the driver's pool

Resu-Match

January 2023

Limited the matching by exacting a Chrome outencien that displays real time insights between year resumes and ich descriptions

- Improved job matching by creating a Chrome extension that displays real-time insights between user resumes and job descriptions
- Focused on building Nextjs frontend with authentication using AWS to give users detailed analytics on their resume and to provide relevant examples to enhance their resume