

# Tajwar Rahman

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## EDUCATION

**City College of New York** – *Bachelor of Science in Computer Science (GPA: 3.5)* Expected Graduation: June 2024

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

## SKILLS

- **Programming:** Strong: Python(4y), JavaScript(3y) Intermediate: C++(2y), SQL(2y), Java(2y), Go(2y), GraphQL(2y), C#(1yr)
- **Frameworks:** React, React Native, Nodejs, Nextjs, Angular, Express, SwiftUI, Selenium, TensorFlow, Remix, Django, Bun.js
- **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 – MetLife (New York, NY)** May 2022 – Current

- Delivered an end-to-end subset of components and services migrated from AngularJS to Angular 13, reducing latency by 40%
- Optimized build/release pipelines in Azure DevOps to automate deployments using power shell scripts, decreasing the deployment lead time by 2-3 minutes
- Designed an automated onboarding process for new hires that minimizes hiring costs by over \$300K

**Tech Lead – The Headstarter (New York, NY)** March 2022 – Current

- Partnered with CTO to redesign the backend architecture by shifting from an express to a serverless framework, reducing monthly AWS resource costs by 80%
- Led the refactoring of the old code base to Next.js and implementation of AWS CDK to improve performance by 60%
- Introduced caching such as CloudFront in media related content to decrease video loading time by 66%
- Discussed and verified project progress with beta users and external stakeholders by collecting feedback on different stages and directly addressing concerns
- Successfully launched the platform, gaining over 500 users and earning over \$20K in revenue

**Founding Engineer – The Headstarter (New York, NY)** August 2021 – March 2022

- Built video platform in 45 days for startup's launch in October, which had 40+ users, using React, Express, and AWS
- Created custom React components, reducing the number of clicks and the time on pages for the average user by 8%
- Utilized AWS services such as Cognito, EC2, S3, SES, CloudFormation, Lambda, and DynamoDB by working alongside the backend team, which increased productivity by 30%
- Spearheaded a paywall and subscription management system using Stripe that's able to handle about 15K users/month
- Worked closely with 5+ senior engineers and cofounders on code quality feedback and best coding practices

**Software Engineer Intern – Slingshot (New York, NY)** October 2020 – May 2021

- Engineered an automation portal using TypeScript and React to increase productivity by providing mentors and interns the means to manage the planning, development, and execution of their startups
- Revised, modularized, and updated old code bases to modern development standards, making the portal 90% faster
- Integrated Firebase cloud functions which automated tasks, created repositories, sent emails, and created folders using the Trello, GitHub, Gmail, and Google Drive APIs
- Collaborated with the CEO and CTO to deploy the portal and improve search engine optimization (SEO)

**Machine Learning Research Intern – Slingshot (New York, NY)** July 2020 – October 2020

- Worked to increase personal device security by providing continuous one-time authentication to the user
- Developed a cross-platform app using React Native and Firebase to collect stylometric (writing style) data on which research was conducted and models were trained
- Achieved 97% accuracy on novel ML text classifying models created to uniquely identify users based on their stylometric features

## PROJECTS

**CollegeFirst** September 2022

- Engineered a system for college students to register for courses, pay bills, manage personal information, and more
- Architected backend infrastructure using AWS CDK and utilized Next.js's server-side rendering for lower latency

**Learning Made Simple (LMS)** August 2022

- Designed a learning management system, like Blackboard, that incorporates improved student metrics detailed visualizations on class performance, attendance record, schedules, assignments, and announcements using Firebase's real time database

**A1 Finances (1<sup>st</sup> Place Hackathon Winner)** May 2022

- Built a financial platform that makes banking simple and seamless for college students using Next.js, Plaid, and AWS
- Pitched to Capital One engineers, managers, directors, and VPs, and won 1st place in the hackathon

## ACTIVITIES

**Microsoft Reactor Student Summit – Attendee** October 2022

**Capital One Software Engineering Summit – 1<sup>st</sup> Place Hackathon Winner** March 2022

**Association of Computing Machinery (ACM) – Member** September 2021