

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

Incoming Software Engineer Intern – Capital One (McLean, VA) Summer 2023

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 addressed 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

Software Engineer Intern – HKP Solutions (New York, NY) December 2020 – March 2021

- Transformed existing application from Android to iOS using Swift, adaption software to meet unique parameters
- Designed app mockups to improve UI/UX using Figma
- Collaborated with backend team to research and build an API for integration into the app

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 (1st 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

Inventory API	January 2022
<ul style="list-style-type: none"> Built an API that allows users to manage inventory counts and changes to products or services Incorporated AWS DynamoDB to store inventory data and S3 to upload csv files of all the products in the inventory 	
Imgr	January 2022
<ul style="list-style-type: none"> Created a simple image library where users can add and view images uploaded by others using Next.js and Redis Implemented a full text autocomplete search using Redis Search to allow users to instantly view filtered results 	
Tabular	January 2022
<ul style="list-style-type: none"> Built a simple Chrome extension using React that displays random aesthetic images on every new tab Integrated Accuweather API to display current temperatures and weather icons based on user's zip code 	
Nile (E-Commerce Clone)	December 2021
<ul style="list-style-type: none"> Deployed the world's second largest online marketplace (an Amazon clone) on Vercel and built it using Next.js and Tailwind CSS Implemented authentication with Firebase, a checkout system with Stripe API, and queried products from the Fake Store API 	
Dad Joke Command Line Interface	November 2021
<ul style="list-style-type: none"> Developed a CLI using Go and Cobra that prints out random dad jokes using a "random" command and a "--term" flag Fetched data from the icanhazdadjoke API using a get request 	
AWS Bookstore	November 2021
<ul style="list-style-type: none"> Built a simple bookstore website where users can view, buy, and sell books using React Integrated Stripe API and AWS services (Cognito, S3, Lambda, CloudFormation) to handle checkout and user actions 	
Co-Video	November 2021
<ul style="list-style-type: none"> Built a Netflix clone where users can watch trending shows and movies using Typescript in React Native Integrated AWS services (Amplify, Cognito, S3, and DynamoDB) to handle authentication and videos 	
Code Match (1st Place Hackathon Winner)	September 2021
<ul style="list-style-type: none"> Worked with a team of 7 to build a platform that connects established software engineers to college students Implemented a swipe to match mechanism in the React Native app and integrated ParseAPI to handle backend queries 	
Big Bite API	July 2021
<ul style="list-style-type: none"> Used Node, Express, and MongoDB to build an API for a food delivery application like Grubhub/Door Dash/Uber Eats Introduced routes and endpoints for users and restaurants to handle authentication, orders, inventory, and other services Utilized salted hash techniques using bcryptjs to store passwords quickly and securely to MongoDB's NoSQL database 	
LinkedIn Scraper	July 2021
<ul style="list-style-type: none"> Used Selenium to build a Python script that would scrape the name, company, and profile link of recruiters in tech Exported all the data to a csv, and let it run hourly to avoid too many requests 	
Crypto Market	June 2021
<ul style="list-style-type: none"> Built an accurate and real-time price-tracking Swift app for cryptocurrencies using CoinMarketCap's API Scraped detailed information about each currency from Coin Market's in-depth pages 	
AI Flappy Bird	June 2020
<ul style="list-style-type: none"> Created a replica of Flappy Bird by using Python and PyGame, keeping the same controls and scoring system Performed 48 generations, each with 60 Flappy Birds, before ending the simulation at 3 birds scoring 250 points 	
ATM Machine	June 2020
<ul style="list-style-type: none"> Designed a console ATM application that allows users to deposit/withdraw money from their accounts using Java Connected SQL database using JDBC and SQL statements to store login and account information Implemented DAO (data access object) pattern by creating interfaces to handle relational database operations 	
ACTIVITIES	
Microsoft Reactor Student Summit – Attendee	October 2022
Capital One Software Engineering Summit – 1st Place Hackathon Winner	March 2022
Microsoft Tech Resilience Program – Mentee	February 2022
Association of Computing Machinery (ACM) – Member	September 2021
JP Morgan Chase Software Engineering – Virtual Experience	June 2020