

# FARNAZ ZINNAH

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## EDUCATION

The City College of New York, B.E. in Computer Engineering (Honors: 3.4/4 GPA)

Graduated: June 2022

## TECHNICAL SKILLS

Languages	Python · Java · TypeScript · JavaScript · Kotlin · C++ · C# · MySQL · PostgreSQL · Markdown · HTML · CSS · Swift UI · GraphQL
Frameworks	React JS · Node JS · Express JS · Django · Flutter · Flask · Bootstrap · Tailwind CSS · Keras · React Native · TensorFlow · OpenCV · Keras
Software	Gradle · Webpack · GitHub · Android Mobile Development · Postman · Figma · Git · Bash · Jira · Agile
Cloud Platform	Google Cloud Platform (GCP) · Amazon Web Services (AWS) · MongoDB · Back4app

## EXPERIENCE

### CODEPATH *Technical Interview Prep and Web Development Teaching Assistant*

August 2023 - Present

- Mentor 30+ students on data structures and algorithms through mock technical interviews, securing internships for 10+
- Elevate 6 out of 10 students' coding skills by +1 level from Easy to Medium with clean code principles and design patterns
- Streamline student debugging with a 2:1 code review cycle reduction, using a redesigned Test-Driven Development curriculum
- Resolve student queries with solutions in <2 minutes/request, maintaining a 90% success rate via real-time Slack support

### CON EDISON *Software Engineering Intern*

December 2022 - Present

- Develop features with Angular, .NET, C# improving accessibility for visually impaired, increasing WCAG compliance score by 3x
- Automate Python dashboards with Pandas, Openpyxl, and Selenium to save 4+hrs/day workload and deliver daily data updates
- Execute SDLC principles (design, code, test, document) in VBA macros to generate detailed service district reports 3x faster
- Leverage Transact-SQL in Microsoft SQL Server for database integrity validation, ensuring consistent data across projects

### THE DIFFERENCE *Software Developer Intern*

February 2023 - April 2023

- Engineered a cross-platform fitness app (Android/iOS) using Flutter, PHP, and MySQL driving 25% user growth within 2 months
- Spearheaded Agile and Scrum development with 7+ interns, achieving a 4.5/5 app store rating and 3 releases/month
- Optimized progress page load by 20% using efficient Flutter UI design and utilizing RESTful API sorting to reduce data transfer
- Educated 3+ interns on the technical architecture of the app, delivering 2+ extra features/sprint and reducing bug rate by 10%

### HEADSTARTER *Software Engineering Fellow*

June 2022 - Sep 2022

- Built serverless APIs using Amazon Web Services (AWS) Lambda with 99% uptime and Dynamo DB data entry tables
- Formulated full-stack projects from design to deployment using MVC design pattern, resulting in 3 successful deployments
- Coached by Amazon, Bloomberg, Google, and Capital One engineer on Agile, CI/CD, Git, and Microservice pattern

## PERSONAL PROJECTS

### Yoda the Conversation Co-Pilot (Web) - Best LLM Solution in Cornell Tech LLaMahack

Dec 2023

- A conversational agent in Python using Gradio and Whisper, handling 30+ daily interactions to enhance user engagement
- Architected a real-time transcription and response generation system using machine learning, aiding people with social anxiety
- Advanced the platform with GPT and LangChain, achieving 4x less errors in emotional cues for context-sensitive dialogues

### CodeFM (Web)

Dec 2023

- A platform hosting 20+ coders monthly, facilitating personalized learning via CRUD operations and dynamic routing
- Supported a scalable architecture, efficiently managing a twofold increase in traffic without performance degradation
- Established a many-to-many PostgreSQL relationship, allowing resource sharing and diversifying content variety by 15%

### GreenCloset (Web) - 1st Place Girls in Tech Hackathon

Oct 2023

- A React/Express/PostgreSQL platform aimed at reducing textile waste by donating clothes to marginalized communities
- Enabled real-time donation and photo upload functionalities, targeting 50%+ low-income students in top NYC universities
- Enhanced pick-up and request features, leading to 80% of matches in 45 minutes and driving a 25% uplift in user engagement

### Creatorverse (Web)

Aug 2023

- A React platform for 10+ creators, streamlining content and profile management with data-driven UI/UX design
- Implemented CRUD operations for creator profiles, optimizing user adjustments and improving platform functionality
- Utilized Supabase for secure real-time data handling and async/await with Axios for API efficiency, reducing load times by 20%

### Face Mask Detection (Web, Android, iOS)

July 2022

- A real-time cross-platform Machine Learning (ML) app achieving 95% mask detection accuracy and 70% false positive reduction
- Developed a ResNet-101 CNN model using TensorFlow and Keras to analyze a balanced dataset containing 5000+ images
- Improved model training speed by 2 hrs/epoch via OpenCV-based image preprocessing, custom scaling and color normalization

## AWARDS / ACTIVITIES

Kenneth and Glory Levy Scholarship  
ACM

Aug 2021 - June 2022 HeadStarter Hack (2<sup>nd</sup> Place)  
Feb 2019 - June 2022 Muslim Student Association

June 2022  
May 2021 - June 2023