TARIQ ACHOR ZYAD

Houston, TX

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Education

University of Houston **Expected: December 2024**
Bachelor of Science in Computer Science, Minor in Mathematics *GPA: 3.55*
Relevant Coursework: Algorithms, Data Structures, Software Design, Operating Systems, Computer Networks

Experience

University of Houston, Computer Science Department **August 2022 – Present**
Teaching Assistant *Houston, TX*
- Instructed **350+** *Algorithms and Data Structures* students in the design and mathematical analyses of algorithms.
- Delivered office hours to **35+** weekly students for algorithmic paradigms such as recursion and dynamic programming.
- Guided **450+ students** through fundamental principles of **C++** and **object oriented programming (OOP)**.

TensorIoT, Inc. **January 2024 – May 2024**
Student Project Developer
- Maintained over **90%** test coverage across **200+** unit tests by leveraging **test driven development**.
- Propelled a **400%** increase in progress by **vertically slicing** stories and weighing pivotal feature considerations.
- Developed an end-to-end manufacturing simulation with **AWS Lambda**, generating model data **every 60 seconds**.
- Provided production-ready software for TensorIoT within **4 months** by consulting weekly with company executive.

CougarCS **August 2023 – May 2024**
Director of Tutoring *Houston, TX*
- Drove a surge in community growth within my first **100 days** with over **400+** new users joining CougarCS Tutoring.
- Led a **38** member tutoring team within the campus's longest serving Computer Science Organization.
- Facilitated review workshops covering topics in **Data Structures** and **Algorithms** with **60+** member turnouts.
- Administered an inclusive space of **1500+** users seeking free peer-to-peer assistance and professional development.

Projects

Gibraltr Visa Searcher | *Next.js, JavaScript, TailwindCSS* **January 2023**
- Connected passport holders with **over 38,000** travel restrictions through a professional user experience (UX).
- Integrated dynamic routes to arrange visa requirements for **199 nationalities** from a Passport Index API data set.
- Composed a scalable multiple-page application of **24** fully responsive front-end components for mobile and desktop.

OffTheBeatenBudget | *Python, FastAPI, Docker, Nuxt,js, TypeScript, GitHub Actions* **August 2024**
- Secured continuous delivery and increased scalability by **containerizing** the application's backend using **Docker**.
- Attained **100%** code coverage testing **REST API** requests in Python for retrieving and updating budget data.

Battuta.ai | *Next.js, TypeScript, TailwindCSS, FastAPI, OpenAI, Google Places API* **September 2024**
- Personalized AI generated travel itineraries tailored to user-defined preferences, capable of **1,000** daily API requests.
- Provided users access to **200 million** possible destinations by leveraging **Google Places API** for itinerary generation.

Which Side of the Road? | *Vue,js, Vue Router, TypeScript, TailwindCSS, Cypress, Cucumber.js* **August 2024**
- Achieved **100%** test coverage on application workflows using end-to-end testing and **behavior driven development**.
- Enhanced load times using Vue Router to efficiently visualize the global traffic patterns of over **197** countries.

Portfolio Website | *Next.js, TypeScript, TailwindCSS* **April 2023**
- Tailored a **DRY** layout pattern of **5** modular React components suitable for all screen sizes.
- Utilized server-side rendering for single-page application accessibility and a **100%** Vercel real experience score.

Technical Skills

Languages: TypeScript, JavaScript, Python, C++, Java, HTML/CSS, Kotlin, Ruby, Scala, Haskell, Go
Frameworks: Next.js, Jest, Vue.js, Vue Router, TailwindCSS, FastAPI, MongoDB, Cucumber, Nuxt.js, Astro.js
Libraries: React, Node.js, D3.js, HeadlessUI, MaterialUI, ChakraUI, NextAuth.js, NumPy, OpenCV, OpenAI, Pydantic
Tools: GitHub Actions, Jenkins, Vercel, Cypress, Docker, AWS, DynamoDB, Vercel, Jenkins, Git, Figma, Jira, Poetry