Ashar Farooq

Huntington Station, NY 11746

Full-Stack Software Engineer and MIT Graduate Student Looking for Full-Time Roles in Summer 2025

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Education

Massachusetts Institute of Technology   **June 2025**
Master of Engineering in Electrical Engineering and Computer Science (Candidate)   *Cambridge, MA*
- Computer Systems and Society, Artificial Intelligence and Decision-Making, Data Traceability

Massachusetts Institute of Technology   **June 2023**
Bachelor of Science in Computer Science and Engineering   *Cambridge, MA*
- Computation Structures, Software Construction, Machine Learning, Design of Algorithms, Python, Project Engineering

Experience

Dispel   **February 2024 – Present**
Associate Full-Stack/Infrastructure Software Engineer   *New York, NY / Remote*
- Pioneered features related to the core Dispel remote access platform and backend cloud infrastructure, including logic updates for job queue requests to handle tens of thousands of updates in a divide-and-conquer approach.
- Closed more than 95 tickets to fix existing and new bugs in the product architecture of Dispel, helping Web & API, Quality Assurance (QA), Infrastructure, and DevOps teams with regression testing and integrations.

Uliza   **June 2023 - August 2023**
Software Engineering Intern   *Cape Town, South Africa*
- Leveraged advanced Python and Natural Language Processing techniques to craft 10 LSTM models, 14 CNN models, etc. in order to detect local African languages from local audio files, resulting in a best testing accuracy of 99.7%.
- Collaborated with company leadership to produce efficient programs to turn hundreds of hours of human interviews in local vulnerable African languages, such as N|uu, into readable PDF, CSV, and XML formats to feed into other systems.

Flowcode   **June 2022 – August 2022**
Software Engineering Intern   *New York, NY / Hybrid*
- Steered the Activation Engineering Team in developing a revolutionary variant for a flagship product, resulting in a remarkable twofold increase in the conversion rate for college students engaging with Flowcode QR codes.
- Architected a cutting-edge feature enabling the dynamic showcase of the nearest print stores on a customizable map during the checkout phase of a Flowcode QR code, elevating customer convenience.

Skills

Programming Languages: Python, JavaScript, TypeScript, HTML, SQL, CSS, Basic Stata, Basic C++, Basic Java
Technologies/Frameworks: Git, React, Vue, Next.js, Django, MongoDB, PostgreSQL, Node, Vercel, Agile, Jest/Mocha Testing, REST API, UI/UX, Docker, Amazon Web Services (AWS), Azure, Sentry, FastAPI, LaunchDarkly Feature Flags, Virtual Desktops, Network Security, RabbitMQ, Heroku, Visual Studio, GitHub, Ansible, NX Cloud, Coveralls, RISC-V

Projects

QuickChat | *TypeScript, Vue, Heroku*   **November 2022 - December 2022**
- Engineered an innovative chatting platform that revolutionizes user experience, offering hassle-free setup with no sign-in or sign-up requirements. Designed for swift deployment of temporary, time-constrained chatrooms over the web.

CloudDude | *React, MongoDB, Node*   **January 2022**
- Conceptualized and brought to life a user-centric game allowing creation, publication, and play of custom levels, challenging players with dynamic obstacles and game objects.

Extracurricular

Teaching Assistant   **Spring 2021 – Present**
MIT's Introductory Python Courses 6.100A, 6.100B, and 6.100L
- Mentored students in tackling advanced problem sets on programming fundamentals, including dynamic programming and recursion, while concurrently leading impactful office hours, writing problem sets, and teaching recitation sections.