

ASHAR FAROOQ

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Education

Massachusetts Institute of Technology <i>Master of Engineering in Electrical Engineering and Computer Science</i>	June 2025 <i>Cambridge, MA</i>
Massachusetts Institute of Technology <i>Bachelor of Science in Computer Science and Engineering</i>	June 2023 <i>Cambridge, MA</i>

Experience

SantAI <i>Member of Technical Staff</i>	September 2025 – Present <i>New York, NY</i>
<ul style="list-style-type: none">Developed and optimized advanced Retrieval-Augmented Generation (RAG) pipelines for custom LLM agents, achieving a 2x improvement in response speed and retrieval accuracy.Designed and built a scalable MCP Directory platform hosting hundreds of MCP servers, integrating external and internal environments with support for forums, automated deployments, and live scripting.	
Dispel <i>Associate Full-Stack/Infrastructure Software Engineer</i>	February 2024 – December 2024 <i>New York, NY / Remote</i>
<ul style="list-style-type: none">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.	
Flowcode <i>Software Engineering Intern</i>	June 2022 – August 2022 <i>New York, NY / Hybrid</i>
<ul style="list-style-type: none">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, CSS, SQL, C++, Java, Stata
Frameworks & Libraries: React, Next.js, Vue, Django, FastAPI, Node.js, Express, Tailwind CSS, Flask, Material UI
Databases: PostgreSQL, MongoDB, SQLite, ChromaDB, Firebase
Cloud & DevOps: AWS, Azure, GCP, Docker, Heroku, Vercel, Ansible, NX Cloud, Coveralls, LaunchDarkly
Tools & Practices: Git, GitHub, GitLab, Jest/Mocha, Sentry, RabbitMQ, VS Code, Virtual Desktops, Cursor, Postman

Projects

QuickChat <i>TypeScript, Vue, Heroku</i>	November 2022 - December 2022
<ul style="list-style-type: none">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 <i>React, MongoDB, Node</i>	January 2022

Extracurricular

Teaching Assistant <i>MIT's Introductory Python Courses 6.100A, 6.100B, and 6.100L</i>	Spring 2021 – Spring 2025
<ul style="list-style-type: none">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.	