HASAN HUDA

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EXPERIENCE

THE HEADSTARTER AI - *SOFTWARE ENGINEER - FELLOW*, *New York City, NY/San Francisco, CA* — *Jul 2024 - Present*
- To **Build 5 AI** applications and APIs effectively, leveraging technologies such as NextJS, OpenAI, Pinecone, and StripeAPI
- **Led a team of 4+ engineering** fellows from project conception through to deployment utilizing MVC design patterns.
- Coached by engineers from Amazon, Bloomberg, and Capital One on **Agile, CI/CD, Git** and microservice patterns.
- Implemented Agile practices like sprint planning and daily stand-ups to **streamline development** and improve productivity
- Provided **technical guidance and mentorship** to fellow engineering members, fostering a collaborative environment
- Conducted **code reviews** and pair programming sessions to ensure code quality and adherence to tech best practices.
- Optimized application performance through code refactoring, efficient db queries and performance testing and tuning

PUBLIC SERVICE ELECTRIC & GAS CO (PSEG) - *SOFTWARE ENGINEER - INTERN*, *Newark, NY* — *Jun 2023 - May 2024*
- Developed Java code solutions on major projects in collaboration with multiple senior engineering teams consistently
- Utilized both the Mulesoft and Anypoint Platforms to integrate and streamline enterprise applications and services.
- Tested and debugged **thousands of API endpoints** to ensure product reliability and performance. Achieved this using Postman, and unit testing frameworks to ensure the integrity and functionality of the APIs, collaborating with the QA team
- Developed a software solution to calculate vCore usage, resulting in the creation of responsive PowerBI reports for cost analysis. The Optimized resource allocation here, contributed to savings of tens of thousands in licensing costs.
- Utilized HTML, CSS, and JS to create an engaging website and user-friendly site website. By collaborating with multiple departments, leveraged the site to highlight the company internship experience, enhancing internal engagement.
- Led the effort working **with 15+ Senior Engineers** to refactor and optimize the inventory of over **200+ API** documentation.
- Authored intuitive and comprehensive technical documentation for APIs, ensuring clear and detailed descriptions, error codes, and usage examples, facilitating easier understanding and utilization by both developers and stakeholders
- Worked closely with senior engineers, gaining valuable insights and mentorship on best practice and advanced techniques

ISLAMIC CENTER OF LONG ISLAND (ICLI) - *SCHOOL TEACHER*, *Long Island, NY* — *Aug 2021 - Aug 2022*
- Instructed 12th grade students on topics relating to jurisprudence, theology, and law, utilizing engaging **teaching methods** and tools including **visual aids via diagrams, presentations**, and multimedia resources to enhancing retention of material
- Participated in regular professional development meetings with other teachers and administrators to collaborate on effective teaching strategies, best practice, and leadership. Engaged in workshops, seminars, and training sessions.

PROJECTS

ALF-AJR / *Github (#1 Contributor)* | *Live Site (100+ Visitors) (50+Users)* — *Jul 2024 - Present*
- Developed an **interactive web app** to help visualize, monitor, develop, and compete in Islamic spiritual habits consistently
- Technologies: **NextJS, Typescript, PostgreSQL, TailwindCSS,** Firebase, Prisma, ReactJS, Shadcn UI, Hotjar Analytics
- Habit Tracking implemented with streak functionality allowing users to track how long they've maintained their habits.
- Enabling **global** leaderboards and friend connections to foster a sense of community and accountability to engage users.
- Designed a **user-friendly interface** with Tailwind CSS, to ensure that the engaging user experience extends to mobile users
- Exceeded my role as full-stack developer; responsible for overall architecture, database design, front-end, and deployment.
- Created a support feature, where I've received much feedback on features and bugs from users. Actively monitored and responded to user feedback, prioritizing and implementing feature requests and bug fixes to improve the user experience

MacGuardians / / *Github* | *Live Site* — *Jul 2024 - Present*
- Developed an interactive web based e-commerce application platform for personalized MacBook cases as demonstration
- Technologies: NextJS, PostgreSQL, TailwindCSS, TypeScript, Firebase Authentication, Prisma, ReactJS, Shadcn UI, Vercel
- Implemented uploading images for users, resizing, and applying materials and finishes to the product for a personal feel.
- Leveraged React-Email to send confirmation emails to users after checkout, keeping them informed about purchase status
- Features an admin dashboard that displays a list of the transactions made, with overview of sales, goals, and user activity

EDUCATION

State University of New York (SUNY), Stony Brook Bachelors of Science in Applied Mathematics and Statistics — *Aug 2019 - Aug 2024*
- *Relevant Coursework:* Object-Oriented Programming, Scripting Languages, Programming Abstractions, Data Structures and Algorithms, Computation Theory, System Fundamentals, Software Engineering, Computer Networking, Software Security

The Coding Dojo Bootcamp, Software Engineering Certificate — *Nov 2022 - Mar 2023*
- 1000+ hours on intensive coursework through all phases of project development in Java, Python, Javascript and more

SKILLS & ADDITIONAL INFORMATION

Languages: Typescript(2023) Javascript(2021) Java(2019) Python(2019) **Databases:** PostgreSQL(2023) MongoDB(2021) MySQL(2021)
Frameworks: NextJS(2023), ReactJS('21), NodeJS('21), jQuery('22), ExpressJS('21), Java Spring Boot ('20), Flask ('21), Django ('24)
Libraries and More: TailwindCSS, Prisma, Amazon Web Services (AWS EC2 & S3), Git Version Control, HTML, CSS, Mulesoft, Firebase
Other Experiences: William Cullen Bryant High School Diploma (2015 - 2019), Ahlul Bayt Complex Weekend Teacher (2016), PSAL Volleyball Captain (2019), DLNY Weekend Teacher (2017-2019), Stony Brook University Residential Officer (2019 - 2020), Stony Brook University Residential Senator (2019 - 2020) Chipotle Mexican Grill Certified Trainer (2020 - 2021), Muslims Student Association Vice President (2021 - 2022), Fultoli Islamic Center Weekend Teacher (2022 - 2023), The Halal Guys Crew Member (2022 - 2023)