Nilay Shah

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Education

Georgia Institute of Technology *Atlanta, GA*
Bachelors of Computer Science *Grad. 2023*
- **Courses:** Design & Analysis of Algorithms, User Interface Design, Artificial Intelligence, Machine Learning, Statistics and Applications, Tech Communication, Automata & Complexity, Perception & Robotics, Applied Combinatorics

Work Experience

Freelance Website Developer *Marietta, Georgia*
June 2024 - Current
- Developed a **WordPress** plugin using **PHP** to integrate **Google Sheets API** into client's webpage, adding an extra layer of security, assuring buyers cannot access proprietary data
- Created reusable **template and documentation** to standardize webpage additions for Food-4-Life organization, simplifying future updates for their multiple branches

Institute of Nuclear Power Operations *Atlanta, Georgia*
Software Development Intern *Jan 2022 - Apr 2022*
- Identified issues via **mock user testing**, found root causes and fixed bugs related to permissions, on-boarding, and database inputs, improving usability for over **200 internal users**
- **Facilitated cross-team collaboration** to resolve **database/server configuration** issues, preventing downtime for **3 services** essential to internal logins and employee on-boarding
- Optimized **9** weekly used **SQL reports** and queries, enhancing data delivery to end users by streamlining information
- Refactored the **.Net framework** using **C#** to organize information on internal web pages
- **Tech:** SQL Reports, Service Now, Microsoft Office, T-SQL, Visual Studio, .NET

Datascan *Alpharetta, GA*
Software Development Intern *June 2019 - Aug 2019*
- Modernized **Spring MVC Framework** to use **Java 8** libraries, increasing efficiency and making future development more intuitive
- Triaged and collaborated with front-end team to resolve **REST API** bugs, increasing data transfer reliability between systems
- Reduced unnecessary table joins, enabling **Redis** cache integration and improving **SQL query** efficiency for frequently accessed data by approx. **20%**
- **Tech:** Docker, Jenkins, JIRA, Postman, Unix, IntelliJ, Springboot, AWS

Personal Projects

Should I Buy It?
- Developed a web app using **Next.js** and **Chakra UI** that evaluates purchase decisions based on monthly income
- Integrated **OpenAi API** for witty, AI-driven financial advice
- Secured API endpoints with **Cloudflare Workers** for scalability and GitHub pages compatibility
- Deployed via GitHub Pages with **CI/CD** and custom domain integration at **ShouldIBuyIt.site**

Twitter Bot
- Generates personalized tweets from articles using ChatGPT and Twitter **APIs**
- Scrapes CNBC for mortgage news with **Python** and tracks articles with **SQLite3**
- Designed for a mortgage broker to maintain a social media presence; adjustable to other professions

Battleship Bot
- Created a Battleship bot using **JavaFX** library
- Constructed an updating probability gradient for targeting, reducing number of shots needed to complete a game on average by 50%

Aery
- Built a replica of an outdated modeling program used by highschool aerospace classes using **Java** Swing
- Generated renders of a balsa wood airplane according to user-specified dimensions such as root chord length and leading sweep angle

Skills

Programming Python, Java, SQL, PHP, HTML/CSS, JavaScript, React, C#
Miscellaneous Git, REST API, Spring MVC, Mock User Testing, J Unit, OOP, Data Structures and Algorithms
Soft Skills Agile Development, Communication, Root Cause Analysis