Shadi Barakat

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**SUMMARY**

Software Development Engineer with nearly 3 years of experience. Developed and taught programming fundamentals using languages such as C++ and advanced web technologies like JavaScript frameworks (React, Node, Typescript), HTML, and CSS. Created custom websites and applications for diverse purposes including personal portfolio and other practical projects. Eager to leverage a solid background in coding and software development to craft optimally performing and secure applications. Proven ability in collaborating with peers to break down tasks and achieve technical goals. Eager to utilize skills in a professional engineering team to build and document new features.

**EDUCATION**

**City University of New York, College of Staten Island**

Bachelor of Science in Computer ScienceExpected May 2026

GPA: 3.25 of 4.00

**Relevant Coursework:**

C++ Programming, Intermediate Programming, Computer Organization, Discrete Mathematical Structures, Data Structures, Object Oriented Software Design, Linear Algebra

**SKILLS**

**Programming:** C++, Python, HTML, HTML5, Java, JavaScript, React, TypeScript, Angular, API and CSS.

**Technologies:** Microsoft Visual Studios, Web Design

**EXPERIENCE**

**NIA Community Services**

**Instructor**

* **Teach students in an after-school program the basics of computer science.**
* **Instruct classes of 10-20 students the beginning steps of coding in C++**

**October 2022 – Present**

**Alpha Prime Tech**

* **Acquired and utilized programming languages and frameworks, including HTML, HTML5, Jaca, JavaScript, and CSS, with additional expertise in React, Node.js, TypeScript and SQL.**
* **Developed robust websites from the ground up, including a personal portfolio, a calculator, and a restaurant website.**

**April 2024 – June 2024**

**CERTIFICATES**

[**Crash Course in Python**](https://coursera.org/share/4d738f32ab9b1c05ab73f39b57f79db6) - 50-hour course that provides a fast-paced introduction to Python programming. Learn Python from scratch and gain hands-on experience through interactive exercises and assignments. The course covers fundamental programming concepts, data structures, Python libraries, and practical applications, equipping learners with the skills to tackle real-world programming challenges.

**Full Stack Web Development with Cloud** – Received a certificate of completion. Completed a comprehensive introduction to HTML, HTML5, Java, CSS, JavaScript, Typescript, SQL, React, Node, and APIs, gaining hands-on experience in fundamental programming concepts, data structures, and Web Development. Developed practical skills through interactive exercises and assignments, enhancing my ability to tackle real-world programming challenges.

**PROJECTS**

**Personal Portfolio:** Created a responsive personal portfolio website using HTML and CSS to showcase my projects, skills, and experience. The portfolio features a clean, modern design with a focus on user-friendly navigation. I structured the website using semantic HTML5 elements, ensuring accessibility and SEO optimization. The site includes multiple sections, such as an "About Me" page, a "Projects" gallery with detailed descriptions and links to live demos, and a "Contact" form that allows visitors to reach out directly. I used CSS for styling, implementing media queries to ensure the site is fully responsive and displays correctly on various devices, from desktops to mobile phones. The project highlights my front-end development skills and my ability to design and build professional-looking web pages from scratch.

<https://github.com/shadibarakat/Portfolio>

**Tic-Tac-Toe Game:** Developed a command-line based Tic Tac Toe game in Python that supports two-player gameplay and includes a simple AI opponent for single-player mode. The project involved implementing game logic to handle win conditions, draw scenarios, and input validation, ensuring a smooth and error-free user experience. I applied modular design principles by organizing the code into functions for game initialization, player input, board display, and status checks. The game provides clear instructions and a visually distinct game board in the terminal, enhancing the overall user experience. Additionally, I used Git for version control to manage and track code changes efficiently.

<https://github.com/shadibarakat/Portfolio>

**Weather App:**  Developed a weather app using HTML, CSS, and JavaScript that provides real-time weather information for any location. The app features a clean and intuitive user interface, allowing users to search for weather conditions by city name. I integrated a third-party weather API to fetch current temperature, humidity, wind speed, and weather descriptions, which are dynamically displayed on the page. The design was crafted using responsive CSS to ensure the app looks great on both desktop and mobile devices. I also implemented error handling to provide user feedback for invalid inputs or network issues. This project demonstrates my skills in front-end development, API integration, and creating responsive, user-friendly web applications.

<https://github.com/shadibarakat/Weather-app>

**Calculator:** Built a fully functional calculator using HTML, CSS, and JavaScript, designed to perform basic arithmetic operations such as addition, subtraction, multiplication, and division. The calculator features a clean and intuitive interface, with buttons for digits, operations, and clear functions. I used JavaScript to handle the logic for calculations, ensuring accurate results and handling edge cases like division by zero. The layout is styled with CSS, including a responsive design that adapts seamlessly to various screen sizes, from desktops to smartphones. This project highlights my proficiency in front-end development and my ability to create interactive, user-friendly web applications.

<https://github.com/shadibarakat/Calculator>

**Trivia App:** Developed a trivia app using HTML, CSS, and JavaScript that challenges users with a series of multiple-choice questions on various topics. The app features a dynamic and interactive interface where users can select answers and receive instant feedback on whether their choice was correct or incorrect. I implemented a scoring system that tracks the user's performance throughout the quiz. The questions and answers are managed through an array of objects, allowing for easy updates and expansions. The design is responsive, ensuring a seamless experience across different devices. Additionally, I added a timer feature to increase the challenge, encouraging users to think quickly. This project showcases my skills in front-end development, user interaction design, and JavaScript programming.

<https://github.com/shadibarakat/trivia-api-tutorial-project>