Prethel Alam

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EDUCATION

Bachelor of Science in Computer Science   Expected Graduation: **May 2026**

The University of Texas at Dallas, Richardson, TX   Cumulative GPA: **3.81/4.0**

- **Relevant Coursework:** Data Structures & Algorithms, Advanced Algorithm Design & Analysis, Software Engineering, Professional and Technical Communication, Digital Logic & Computer Design, Programming Language Paradigms

WORK EXPERIENCE

Bark Side   **January 2025 - Present**

Full Stack Developer   *Dallas, TX*

- Collaborating with a senior full stack developer to design and implement a comprehensive **website** for a dog grooming company, including a fully functional **frontend**, **backend**, and **database integration**.
- Developing multiple frontend features and **UI components** using **Vue.js** and **Tailwind CSS**, enhancing **user experience** and the application's overall functionality.
- Building **backend** functionality using **Node.js** and **Express.js**, implementing **REST APIs** for efficient **data exchange**, and ensuring seamless communication between the frontend and backend.
- Optimizing **backend functionality** through strategic modifications to **database queries** using **SQL** and **Azure Data Studio**, supporting the addition of new features and **improving data retrieval** efficiency.

Connect2Power   **June 2024 – January 2025**

Frontend Developer   *Dallas, TX*

- Developed a dynamic and **responsive website** employing **HTML5**, **CSS3**, and **JavaScript** for an independent consultant affiliated with Ambit Energy, which increased customer engagement by **10%** and improved acquisition opportunities by **15%**.
- Optimized performance through advanced SEO techniques, achieving around **1,000 unique visitors** and over **46,000 total monthly requests** while enhancing site speed and resource efficiency with Cloudflare caching strategies.
- Reduced **bounce rate** by **15%** and **saved 67 MB of data monthly** through improved content structure, faster page load speeds, and optimized caching strategies, significantly enhancing website speed and user experience.

TECHNICAL PROJECTS

Portfolio   www.prethelalam.com

- Built a portfolio **website** using **HTML5**, **CSS3**, and **JavaScript** to showcase work experience, relevant projects, and coursework.
- Created a comprehensive online presence to demonstrate technical expertise in **frontend development** to align with **frontend** development skills.
- Integrated **responsive design** principles to ensure **cross-browser functionality** and **device compatibility** while providing a seamless user experience across mobile and desktop platforms.

TECHNICAL SKILLS

- *Programming Languages:* JavaScript, C++, C, Java, SQL, HTML5, CSS3
- *Tool/Technologies:* Git, GitHub, Visual Studio Code, Eclipse, IntelliJ, Azure Data Studio, REST API's
- *Frameworks:* Vue.js, Express.js, Node.js, Tailwind CSS
- *Databases:* MySQL, MariaDB