Sana Merchant

(516) 993-8108 | sana_merchant@brown.edu | LinkedIn: sana-merchant

EDUCATION

Brown University   **Expected Graduation: May 2026**

Bachelor of Science, Computer Science   *Providence, RI*

- **Relevant Coursework:** Data Structures and Algorithms, Object Oriented Programming, Multivariable Calculus, Linear Algebra, Computer Systems, Social Impact of Emerging Technologies

SOFTWARE ENGINEER & DATA EXPERIENCE

University of Central Asia   **July 2023 - Oct 2023**

Data Analyst   *Bishkek, Kyrgyzstan*

- Identified 7 KPIs by creating PowerBI dashboard for ongoing research use in 3 countries: Tajikistan, Kazakhstan, & Kyrgyzstan
- Investigated impacts by manipulating & analyzing 8 public & private data sources for 6 countries across Central Asia
- Created Excel visuals on analysis findings for informational session with 30+ international government officials & policy experts

Arvasit Technolabs   **May - June 2023**

Software Engineering Intern   *HQ India - Remote*

- Implemented a comprehensive model e-commerce website using React, Next.js, HTML, CSS, & JavaScript over a 4 week period
- Drove alignment on final website design by incorporating user research into 5+ wireframes using Figma & presenting to C-Suite

LEADERSHIP EXPERIENCE & EXTRACURRICULAR INVOLVEMENT

Hack @ Brown   **September 2023 - Present**

Front End Developer   *Providence, RI*

- Produce Brown's 2024 Hackathon's website for projected 500+ attendees by partnering with a team of 7 designers
- Collaborate with 8 developers to launch 9 Starter Kits for attendees, employing JavaScript, TypeScript, & React

Full Stack at Brown   **September 2023 - Present**

Website Developer   *Providence, RI*

- Engineer the website for Ignite CS, utilizing React, Express, & MongoDB, uniting with 2 designers & 4 developers
- Coordinate communication between client, designers, & developers to convey purpose & programs to 1,000+ Brown students

STEMinist Camp   **May 2021 - August 2022**

Co-Founder   *Great Neck, NY*

- Spearheaded the creation of an introductory Java course covering 10+ fundamental OOP topics, drawing on AP CS A curriculum
- Delivered 3-week syllabus, teaching it virtually to 19 middle & high school girls across 3 countries: Tajikistan, Algeria, & Egypt
- Incorporated feedback from 7 students by adding 5 lessons on CAD based on high school's robotics workshop

PROJECTS

Travel Planner   **March 2023**

Developer   *Providence, RI*

- Collaborated with a cross-functional team to develop a system that enables users to strategically plan routes based on 3 priorities.
- Implemented 2 search algorithms using Python, Djikstra and Breadth First, computing results based cost, time, & directness.

Decision Tree   **February - March 2023**

Machine Learning Project Lead

- Designed & developed a Python-based Decision Tree algorithm with a team of 2, achieving a prediction accuracy $> 85\%$
- Facilitated agile practices such as standups to share accomplishment, status, and stuck points

Natural Language Processing for "Fake News" Classification   **September 2021 - June 2022**

Machine Learning Researcher   *Great Neck, NY*

- Applied 6 ML algorithms (SVM, kNN, Naive Bayes, Decision Tree, Adaboost, & Bagging) to classify articles as real/fake news
- Achieved 89.58% article classification accuracy by including clickbait classification, training on 32,000 article titles (https://bit.ly/3rVGWdt)

SKILLS & INTERESTS

Skills: Java, Python, C, HTML, CSS, JavaScript, TypeScript, React, MongoDB, Next.js, Node.js, Jupyter Notebook, scikit-learn
Interests: Crocheting, Tennis, Baking, & Gilmore Girls