Ashmit Deb

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EDUCATION

UNIVERSITY OF MICHIGAN   **Ann Arbor, MI**

Bachelor of Science in Computer Science   Aug. 2023 - May 2026

Minor in Entrepreneurship

- **Cumulative GPA:** 3.4/4.0
- **Extracurriculars:** Michigan Financial and Math Society, MHackers, Michigan Student Artificial Intelligence Laboratory

EXPERIENCE

BLUE CROSS BLUE SHIELD OF MICHIGAN   **Southfield, MI**

IT Intern - Data Integration   May 2024 - Aug. 2024

- Conducted source-to-target mapping to retrieve data transformation and migration across systems while utilizing SQL and ETL processes to maintain data consistency and optimize integration workflows
- Used Power Automate along with Sharepoint for IT intake forms while also storing and formatting confidential patient inquiries for data integrity
- Managed software testing using TriZetto Facets to file claim inquiries to Cognizant focusing on the non-production environments E2E and SIT

SPEARS TO SUCCESS   **New York, NY**

Software Development Intern   June 2023 - Aug. 2023

- Improved user return rate and increased website activity by over 200% through HTML5 and CSS3
- Developed a sitemap and wireframe to help create a target outline to structurally define the website

UNIVERSITY OF MICHIGAN - EECS DEPARTMENT   **Ann Arbor, MI**

Summer Research Intern   June 2022 - Sep. 2022

- Worked in Professor Mortazawi's postgraduate research group and conducted research on wireless power transmission and AM frequency
- Operated different analog circuit simulators including LTspice while working hands on with RLC circuits and converting 1 MHz radio waves into an AC voltage source

PROJECTS

Stock Sentiment Analysis Utilizing Reddit API

- Engineered a C++ application that analyzes stock market sentiment by processing Reddit data across multiple financial reddit communities (r/wallstreetbets, r/stocks, and r/investing) using the Reddit API featuring an interactive CLI with real-time progress visualization and detailed HTML report generation
- Implemented stock sentiment analysis algorithms using weighted scoring of financial terminology and post metrics integrating CURL for API requests and JsonCpp for data parsing while employing modern C++ features including RAII, STL containers, and multi-threading for concurrent subreddit processing

Arduino Based Night-Lamp

- Developed and designed an efficient Arduino-based LED Matrix Night-Lamp utilizing a C++ variant programming language tailoring light sensor data and button inputs to produce an interactive display
- The hardware and software used adjusts the display using natural light as well as also offering a manual button to change the user's brightness preference and LED aesthetic design choice

SKILLS

- **Technical Languages**: C++, C, Java, Python, SQL, JavaScript, HTML, CSS
- **Software:** Power BI, Power Automate, Excel, Jira, TriZetto Facets, Citrix**,** LTspice
- **Programming Platforms:** XCode, Visual Studio Code, MySQL Workbench, Arduino IDE 2.0, Glitch