Mollik Rahman

(817) 932-0223
molliksrahman@gmail.com
9208 Ivy Way Ct.
Fort Worth, TX 76118
https://molliksrahman.github.io

EDUCATION

The University of Texas at Dallas AUGUST 2020 – DECEMBER 2024
Bachelor of Science, Computer Engineering GPA: 3.3
Related Coursework: Data Structures & Algorithms, Computer Science I-II, Software Engineering, Database Systems, Intro to ML, Artificial Intelligence

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, React, HTML, CSS, C, C++, MATLAB, MySQL, NoSQL
Software and Platforms: Visual Studio, Visual Studio Code, Code Composer Studio, MySQL Workbench, Microsoft Office Suite, Windows, Linux, Android, iOS, Git, GitHub

PROJECTS

Texas Instruments Wi-SUN Smart Traffic Light – *Python, C*
- Collaborated with Texas Instruments for a Senior Design project that implements their Wi-SUN technology in a smart city application
- Constructed a mesh Wi-SUN network in embedded C using the Constrained Application Protocol consisting of 3 MCUs as a border router and nodes for a traffic light and an emergency vehicle
- Implemented PySpinel in Python as a host interface for the Wi-SUN network

Always Right – *Next.js, React, MySQL*
- Constructed an application for an e-commerce database that holds customer and seller information
- Utilized MySQL to access, sort through, and manage the database
- Created a visual dashboard with analytics and charts using Next.js and React

Pocket Change – *HTML, CSS, React, MongoDB, Express.js*
- Developed a web application that keeps track of the user's current balance and transaction history
- Implemented Express.js and MongoDB as the backend, storing the user's transaction history in a database
- Created a clean minimalistic user interface using HTML, CSS, and React

All-in-One Invest – *React, JavaScript, Python*
- Pioneered a web application that displays stock market data and gives users personalized investment recommendations
- Employed Yahoo API to obtain stock market data and Rechart.js to graph trends
- Developed a search bar to help users navigate through the different tickers

EXPERIENCE

IT Technician – *Ronnie's Limo Service, Inc* APRIL 2023 – CURRENT
- Performed updates to the company website and regularly monitored the site for issues to fix
- Ran company service line to help clients book services online
- Managed online booking database and emailed clients when needed

Undergraduate Researcher – *TIES Research Group* MARCH 2022 – AUGUST 2022
- Conducted quantum computing research under a PhD student mentor for the Trustworthy and Intelligent Embedded Systems research group at the University of Texas at Dallas
- Designed reversible flip-flops using quantum gates
- Embedded reversible flip-flop designs into simulated quantum registers

Customer Service Associate – *Walgreens* MAY 2021 – AUGUST 2021
- Worked with shift leaders and peer customer service associates to improve the experience of customers
- Improved the efficiency of customer checkouts by using the "I see three" system
- Checked out customers, handled photo orders, and stocked items when the floor inventory was low