Ridwan Alam

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Technical Skills

- Python, JavaScript, Node.js, TypeScript, React Native, Flask, HTML, CSS, XML, VBA, SQL, PostgreSQL, Flask, Heroku, Git

Projects

Zymptom   **April 2020**
TypeScript, React Native, Expo

- Mobile app that allows users to upload symptoms that can be used to spread awareness in order to prevent another pandemic
- Designed UI Mobile Interface using React Native and Expo SDK

Cryptocurrency Trading Bot   **March 2020**
Node.js, Websocket, API

- Trading bot connected to Coinbase Pro API and utilizes Websocket to retrieve realtime data
- Trade cryptocurrencies based on different strategies such as MACD (Moving Average Convergence Divergance) and RSI

TIR Stock Trader   **November 2019**
Python, HTML, CSS, PostgreSQL, Heroku, Flask

- Web app deployed on Heroku that allows user to buy and sell stock based on information provided by API from IEXCloud
- Allows user to request quote, buy, and sell stock and records history of transactions
- User data hosted on PostgreSQL
- Main landing page displays users stocks based on shares and price, total investments and remaining cash

Bright Power Proposal Generator   **July 2019**
XML, Macros, Microsoft Word

- Developed custom UI (User Interface) ribbons in Microsoft Word to increase proposal generation for energy and solar clients
- Custom buttons activated macros to retrieve different scopes of work from internal company server

Professional Engineering Experience

Aramark, New York, NY   **January 2018**
Energy Manager

- Tested over 13 Air Handling units' through temperature, air flow, static pressure and motor performance measurements
- Built Excel macros to increase data analysis efficiency by 98%

Ingersoll Rand, Chicago, IL & San Diego, CA   **Jul. 2012 – Aug. 2016**
Energy Engineer

- Conducted 180+ energy studies in USA, Canada and Mexico saving $2.5 million in total energy with an average savings of 29%
- Developed $1.5 million in revenue in new territories and $2 million in current territories
- Delivered technical and financial presentations to C-level Executives
- Base lined energy usage and proposed solutions through regression analysis
- Designed P&IDs for current vs. proposed systems
- Reduced project paybacks to an average of 3 years via state energy rebates (ComEd, Nexant and other subsidiaries)
- Achieved highest accreditation as Air Master from US Department of Energy through in-person training sessions

Education

Virginia Tech, Blacksburg, VA   **Aug. 2008 – May 2012**
Bachelor of Science – Industrial Engineering

- Senior Design Project: Disaster Relief focusing on collection and distribution of donated goods
- Member of Institute of Industrial Engineers and Student Engineering Council

Leadership

President of Students Helping Honduras (non-profit chapter at Virginia Tech)   **Jan. 2010 – Jan. 2012**

- Led fundraising of $40,000+ for developmental projects to implement lighting, housing and new schools
- Led 40+ volunteers to build infrastructure with local townspeople ensuring project completion

Skills

- Languages: English (Fluent), Bangla (Fluent) and Spanish (Conversational)
- Microsoft Office, Advanced Excel: Macros, Salesforce, Adobe Premiere Pro & Photoshop