Tanvir Islam

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EDUCATION

University of Connecticut, Storrs, CT
Bachelor of Science, May 2019
Major 1: Computer Science and Engineering
Major 2: Electrical Engineering
GPA: 3.66 / 4.00

WORK EXPERIENCE

Software Engineer
FactSet Research Systems
Norwalk, CT | July 2019 - Present

- Architect a Point-in-Time database applying formulas and post-processing logic to the raw archived company-data of past twenty years
- Build RESTful and GraphQL APIs to expose datasets to a large number of parallel clients
- Work as the engineer on-call for production related issues on a rotational basis
- Developed an internal product using .NET, PostgreSQL, GraphQL and Vue to maintain thousands of security-linked metadata and to provide a UI for adding and updating records
- Worked on creating a new workflow pipeline using Python that improved the run-time of existing ingest/update jobs by more than 20%

Technical Support Specialist
UConn School of Fine Arts
Storrs, CT | September 2017 - May 2019

- Designed and maintained websites for UConn School of Fine Arts and Benton Museum
- Provided IT support to classrooms and exhibitions to ensure a reliable technical platform

Information Technology Intern
The Travelers Companies
Hartford, CT | June 2017 - August 2017

- Automated the monthly caller data collection process that saved a week worth of tedious data look-ups in excel sheets every month
- Collaborated with interns to build a prototype of a knowledge sharing platform to speed up the new-hire training process

TECHNICAL SKILLS

C++ | Python | JavaScript | C# | Linux | Git | SQL | NoSQL | Node.js | .NET Core | Django | React | Vue.js | Jenkins | Heroku | Arduino | MATLAB | LabVIEW | PSpice

PROJECTS

GitFiddle
Educational Tool *gitfiddle.herokuapp.com*

- Built an interactive web-application with Vue, p5.js, and GitHub REST APIs that visualizes and simulates Git branching commands

Covid-Athenaeum
Visualization *covid-athenaeum.herokuapp.com*

- Generated COVID data visualizations with D3.js and exposed the data via RESTful APIs using Node.js, MongoDB, and Heroku

Checkers AI
Artifical Intelligence for Checkers

- Used C++ to implement fixed-depth minimax AI able to play checkers with the user

RESEARCH EXPERIENCE

Research Assistant
UConn School of Engineering, Dept. of ECE
Storrs, CT | September 2016 - August 2018

- Worked under Dr. John Ayers to simulate and analyze growth platforms for semiconductors
- Authored four research papers based on our research and was awarded the best undergrad research poster at CMOC symposium 2019

REU Fellow
National Science Foundation REU at UConn
Storrs, CT | May 2018 - August 2018

- Collaborated with Dr. Shengli Zhou and Dr. Song Han to research Software Defined Radio usages for real-time communication systems
- Programmed GNURadio blocks with C++ and Python to develop an ad-hoc wireless network capable of inter-computer message transfer