





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 boosted productivity by getting rid of tedious data look-ups in excel sheets
- Collaborated with interns to build a prototype of a knowledge sharing platform to speed up the new-hire training process

TECHNICAL SKILLS

C/C++ Python JavaScript C# Linux
.NET Nodejs Django React Vue D3.js
SQL NoSQL REST GraphQL Jenkins
Git Jira Memcached MATLAB Arduino

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

Artificial 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