



# 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 | Summer 2016 & 2017

- Collaborated with the developers and designed a web-repository with Confluence Wiki that stored the metadata of all web services used within the Personal Insurance department
- Wrote scripts to automate monthly call-data aggregation process that boosted productivity

## 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](https://gitfiddle.herokuapp.com)

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

### Covid-Athenaeum

Visualization

[covid-athenaeum.herokuapp.com](https://covid-athenaeum.herokuapp.com)

- Utilized Node.js, MongoDB and Heroku to make the data accessible via RESTful APIs
- Generated data visualizations with D3.js, Vue

### 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 | Summer 2018

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