Tanvir Islam

21 Stinson Place, Windsor, CT 06095 | +1 (860) 459-2366

tanvirmislam.github.io
tanvirmislam.cs@gmail.com
linked.com/in/tanvirmislam
github.com/tanvirmislam

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
Google
Sunnyvale, CA | June 2021 - Present

- Working on Google Cloud Compute Engine on developing features that better utilize available resources, mitigate latency, and provide customers with more control over their VMs

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

- Worked on creating a new workflow pipeline using Python that improved the run-time of existing ingest/update jobs by more than 20%
- Optimized memory footprints of Python workflows dealing with anywhere between 10 - 20 million database rows by half that resulted into significantly cutting the cloud storage cost
- Developed an internal product using .NET, PostgreSQL, GraphQL and Vue to maintain thousands of financial metadata and to provide a UI for adding and updating the records
- Created a Point-in-Time database applying formulas and post-processing logic to the raw archived company-data of past twenty years
- Worked as the engineer on-call for production related issues on a rotational basis

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

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
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