

NABEEL NAIYER

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EDUCATION

The University of Texas at Austin	B.S. Electrical Engineering B.S. Mathematics	Dec 2018
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WORK EXPERIENCE

Visa Inc. – Software Engineer; Austin, TX Jun 2019 – Present

- Migrated Visa Client Support Application (74M records, 200K attachments) to Microsoft Dynamics with SSIS and KingswaySoft
- Created Selenium Java tests to monitor health of Microsoft Dynamics and Visa Online Portal
- Monitored databases with Dataguise to ensure compliance with security guidelines regarding PI and PAN data

Intel Corporation – Pre-Silicon Validation Intern; Austin, TX Jun 2015 – Nov 2015

- Debugged SystemVerilog tests of RTL code through waveform analysis and a series of back substitutions
- Traced signals back to different hardware components
- Outcome: Fixed bugs involving overheating in hardware components

PROJECTS + RESEARCH

Twitter Bot (Ruby, Twitter API) May 2020 – Jun 2020

- Developed bot that determines the number of tweets posted by a given user per day and tweets visual informatic of that data
- Used cron jobs to schedule bot to run at certain intervals and send emails with pertinent information

Bargain Bot (Ruby, Selenium, Test-Unit) Feb 2020 – Mar 2020

- Developed bot that scrapes information from Reddit and Ebay on deals/discounts for specific Nintendo Switch games
- Used cron jobs to schedule bot to run at certain intervals and send emails with pertinent information

Rational Solutions to Linear Differential Equations (MATLAB) Aug 2018 – May 2019

- Determine if there exists a class of 1st order linear differential equations such that if a solution exists, then it must be rational
- Develop a process that will accept a differential equation as an input and conclude if there exists a rational solution
- Identify the singularities of the equation and expand via Laurent Series around each singularity point to determine the residue
- Create a piecewise function explaining the behavior of the residues and use it to make a conclusion about existence
- *Research lecture given on November 29, 2018 at UT Austin*

Team Formation Algorithm (Python, Javascript, Node.js) Aug 2017 – Jun 2018

- Worked with team to develop and implement a front-end + back-end UT extension for ECE courses involving teams
- Used literature on team development to design an algorithm which would sort a class into the most efficient groups
- Given n people in an environment, identify k characteristics that can be graded from 1-5, and use those metrics to form valuations
- Shuffle people in teams such that every team has a value v greater than the local minimum team score
- Outcome: usage of program by ECE department since August 2018

Real to Animated Image Conversion (MATLAB) Aug 2017 – Dec 2017

- For a given image, runs a K-Means Clustering algorithm on an image to segment pixels then average them
- Finds the inverted Sobel Edge Map of the result and overlays it with the clustered image to produce “cartoonish” appearance

TECHNICAL SKILLS

Languages: Ruby, MATLAB, SQL, JavaScript, C, Java, Assembly

Tools: Selenium, SQL Server, Git, React, Linux, KingswaySoft, SSIS, Dataguise, Microsoft Dynamics CRM

Simulated Systems + Tests and Measurements: Talk-thru, Signal generators, Oscilloscopes, Yagi-Uda and Helix Antennae

LEADERSHIP EXPERIENCE AND ACTIVITIES

Tutoring: Calculus (I-III), Differential Equations, Discrete Math Sept 2017 – Present

Breakthrough Conference Speaker + Coordinator Apr 2016

Multicultural Leadership Institute Panel Coordinator Feb 2016