TARCAN GUL

436 W WOOD ST, WEST LAFAYETTE, IN 47906
PHONE: 7657018232
EMAIL: tgul@purdue.edu
GITHUB: github.com/TarcanGul
LINKEDIN: https://www.linkedin.com/in/tarcan-gul/

EDUCATION

Purdue University (West Lafayette, IN)   May 2021
Bachelor of Science in Computer Science Honors with Mathematics Minor   GPA: 3.9 / 4.0

EXPERIENCE

Aptiv (Previously known as Delphi) (West Lafayette, IN), *Software Verification Engineer*   May 2019-Present
- Enhanced the capabilities of the car simulator library written in C# by allowing multiple Controller Area Network (CAN) signals bindings to one user interface control
- Created a general radio diagnostic identification reader for integration with future simulators
- Wrote unit tests for improving the reliability of the communication between the car simulator library and the Controller Area Network (CAN) bus

PERSONAL PROJECTS

Imagif – Python Flask, HTML, CSS, JavaScript, PostgreSQL, Heroku   August 2019
- Integrated ImageMagick with Python to create algorithms for converting JPG format images to GIF format
- Crafted a backend with Python Flask to glue the gif algorithms with a user interface in the web browser
- Constructed a database for authorization and storing gifs for users
- Launched Imagif using Heroku cloud hosting service (imagif.herokuapp.com) for public use

CalloutApp – Python Flask, Java, MYSQL   June 2019
- Built an Android app that adds callout information to users' calendars by taking a picture of a callout poster
- Designed a REST API with Flask to integrate the written scraping algorithm with Android front-end
- Integrated Google Calendar API to backend using OAuth2 protocol

Go Out – Python Flask, HTML, CSS, Firebase Datastore, Heroku   April 2019
- Implemented two group of users: normal users and managers
- Created event creation feature for managers and RSVP feature for normal users
- Constructed email-password authentication using Firebase Datastore

Techno Machine – C++ JUCE, OSC (Open Sound Control), Sonic Pi   June 2019
- Built a 5-slider controller software via C++ JUCE framework
- Produced a Sonic Pi script to present a model that artists can manipulate
- Assembled a demonstration video for this project: youtube.com/watch?v=L2_cfKRyJRU

PROGRAMMING LANGUAGES

Java (Fluent), Python (Fluent), C# (Intermediate), C++ (Intermediate), C (Intermediate), JavaScript (Intermediate)

LEADERSHIP

Pi Lambda Phi Social Fraternity (Purdue University), *Vice President of Recruitment*   Dec 2018-Present
- Lead the recruitment committee to host rush events which attract potential recruits
- Set up meetings with potential recruits to give more information about the organization
- Pitch the organization to new people in tabling events for increasing recognition

Purdue University Music Producers Club, *Teaching Director*   Sep 2018-Present
- Lecture the concepts of electronic music production to help club members express themselves with music
- Provide constructive feedback to club members for improving their music skills incrementally

Boiler Gold Rush (Purdue University), *Freshman Orientation Team Leader*   August 2018
- Led 8 international freshmen and introduced them to Purdue University