

TARCAN GUL

1196 3RD STREET, WEST LAFAYETTE, IN 47907

PHONE: (+1)7657018232

EMAIL: tgul@purdue.edu

GITHUB: github.com/TarcanGul

WEBSITE: <https://tarcangul.github.io>

EDUCATION

Purdue University (West Lafayette, IN)

May 2021 (Expected)

Bachelor of Science in Computer Science Honors with Mathematics Minor

GPA: 3.9 / 4.0

INTERNSHIPS

- ⌘ Aptiv (Previously known as Delphi) (West Lafayette, IN), **Software Verification Engineer** May 2019-Cur.
 - ❖ Enhanced the capabilities of the car simulator library written in C# by allowing multiple CAN signals bindings to one user interface control.
 - ❖ Created a general radio diagnostic identification reader for being able to easily integrate this component with future simulators.
 - ❖ Added support to new group of user interface controls library LBIndustrialCtrls
 - ❖ Written unit tests for communication between the Simulator class and the CAN bus.

PERSONAL PROJECTS

- ⌘ **Imagif** – Python Flask, HTML, CSS, JavaScript, PostgreSQL, Heroku August 2019
 - ❖ Integrated ImageMagick with Python to create algorithms for converting JPG images to GIF format.
 - ❖ Crafted a backend with Python Flask to glue gif algorithms with a user interface in browser.
 - ❖ Built a database for authorization and storing gifs for each user.
 - ❖ Launched the app using Heroku cloud hosting service: imagif.herokuapp.com
- ⌘ **CalloutApp** – Python Flask, Java, MySQL June 2019
 - ❖ Built an Android app that adds the callout event to calendar after taking a picture of 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 different group of users, normal user 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 2018
 - ❖ 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 demo 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
 - ❖ Communicate with potential new recruits
 - ❖ Pitch the organization to a wide audience
- ⌘ Purdue University Music Producers Club, **Teaching Director** Sep 2018 - Present
 - ❖ Lecture the concepts of electronic music production
 - ❖ Provide constructive feedback to club members
- ⌘ Boiler Gold Rush (Purdue University), **Freshman Orientation Team Leader** August 2018
 - ❖ Led 8 international freshmen and introduced them to Purdue University