

# TARCAN GUL

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## EDUCATION

### Purdue University (West Lafayette, IN)

Bachelor of Science in Computer Science Honors with Mathematics Minor

May 2021

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](https://www.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 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