

TARCAN GUL

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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 by allowing multiple CAN signals binding to one user interface control.
 - ❖ Created a general diagnostic identification reader for radios 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

- ⌘ **CalloutApp** – Python Flask, Java, MYSQL *June 2019*
 - ❖ Integrated Android Camera API to take pictures of callout posters.
 - ❖ Built a REST API with Python Flask to integrate the previous written scraping algorithm in Python with the Android App.
 - ❖ Integrated Google Calendar API
- ⌘ **Go Out!** – Python Flask, Firebase Datastore, HTML, CSS *April 2019*
 - ❖ Implemented two different group of users, normal user and managers.
 - ❖ Setup email-password authentication by 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
- ⌘ **Tarcan Delay** – C++ JUCE *May 2018*
 - ❖ Implemented the circular buffering algorithm to achieve audio delay
 - ❖ Constructed 5 variable parameters to give users flexibility
 - ❖ Made the plugin cross-compatible with digital audio workstations on Windows

PROGRAMMING LANGUAGES AND TECHNOLOGIES

- ⌘ Java (Fluent), C# (Intermediate), C++ (Intermediate), C (Intermediate), Python (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