

TARCAN GUL

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OBJECTIVE

Seeking summer internship to utilize skills such as software development and object-oriented programming.

EDUCATION

Purdue University (West Lafayette, IN)

May 2021 (Expected)

Bachelor of Science in Computer Science Honors with Mathematics Minor

GPA: 3.88 / 4.0

Focused Tracks: Software Engineering and Systems Programming

INTERNSHIPS

Koc University (Istanbul, Turkey), Research Intern

July 2016 – August 2016

- Collaborated on the "Interaction Design for Music Performances" project with Mehmet Aydin Baytas by developing a hand gesture accuracy program for Leap Motion using Processing (Java) and audio

PERSONAL PROJECTS

Techno Machine – C++ JUCE, OSC (Open Sound Control), Sonic Pi

June 2018

- Built 5-slider controller software via C++ JUCE framework
- Produced Sonic Pi script to present a model that artists can manipulate
- Assembled demo video for this project (youtube.com/watch?v=L2_cfKRyJRU)

Tarcan Delay – C++ JUCE, Signal Processing

May 2018

- Implemented circular buffering algorithm to achieve audio delay
- Constructed 5 variable parameters to give users flexibility

TAudioPlayer – C++ JUCE, Signal Processing

July 2018

- The user can navigate anywhere inside a music file using the slider
- Designed visualization that indicates whether an audio is playing

8 Queens Solver – Java

July 2018

- Implemented backtracking algorithm
- Built Graphical User Interface using Java AWT

PROGRAMMING LANGUAGES

Java (Fluent), C++ (Intermediate), C (Intermediate), Python (Intermediate), ARM Assembly (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
- Advertise the organization to a wide audience

Purdue University Music Producers Club, Teaching Director

Sep 2018 - Present

- Teach 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

OTHER ACTIVITIES

Cosi (Purdue University), Barista (12 hours/week)

August 2018 - Present

- Cooperating with a team of other student workers to keep the business running