Pogipedia

Pogipedia is the new, from the ground-up, software for archiving and tracking all of the pogs in the classroom.

# Archivist and API Developer

The Archivist position is responsible for entering new pogs and pog varieties into the database. This includes creating images of pogs and tracking specific information about them. As an API Developer, you will also make the information available via REST API. Potential applicants should have experience with or a willingness to self-teach the following:

* Table data entry
* Digital cameras and image editing
* People skills to collect data about pogs from students
* Basic Nodejs skills to create REST APIs providing pog information

# Frontend Developer

Frontend developer works with the backend developer and archivist to create a user-friendly interface online for browsing the variety of pogs available to students. Potential applicants should have experience with or a willingness to self-teach the following:

* EJS templates
* Working with Javascript in the browser
* Extensive experience with CSS for interface styling

# Backend Developer

Backend Developer handles user requests for information and retrieving information from the database. The database must be kept up to date with all of the information provided by the archivist. Potential applicants should have experience with or a willingness to self-teach the following:

* SQLite3
* Nodejs and ExpressJS

IRLTech

IRLTech seeks to interface our real world with software. Potential projects include scanners to scan student id’s for quick pass creation/ending, NFC enabled pogs for games that track stats, and computer vision to see and identify pogs to interface real life games with the internet.

All applicants must be willing to self-teach. Skills in this company are outside of the normal scope for this clas, but are appropriate for students of this grade level.

# Hardware Developer

Hardware Developer will experiment with and design hardware that can capture information and send it back to a computer for processing. They will work with the Interface and API developer to make it useful for other applications. Potential applicants should have experience with or a willingness to self-teach the following:

* barcode scanners and/or NFC
* Arduino and/or other microcontroller platforms

# Interface and API Developer

Interface and API Developer takes data collected from the hardware developed by the Hardware Developer and turns it into usable signals for other applications.

Potential applicants should have experience with or a willingness to self-teach the following:

* serial protocols and interfacing
* Nodejs and ExpressJS
* REST APIs

# Computer Vision Engineer

Computer Vision Engineer will use webcams to identify pogs using computer vision technologies. Will work with the Interface Developer to make useful data. Potential applicants should have experience with or a willingness to self-teach the following:

* computer vision

WorksForMe

Ever struggle to get more than two people to agree when to do an event? This software will solve that problem by creating an interactive calendar for scheduling events. Each person puts in their preferred times, and the software will pick a time that Works For Everyone

# Frontend Developer

Frontend developer works with the backend developer and archivist to create a user-friendly interface online for navigating the service. Potential applicants should have experience with or a willingness to self-teach the following:

* EJS templates
* Working with Javascript in the browser
* Extensive experience with CSS for interface styling
* Websockets

# Backend Developer

Backend Developer handles user requests for information and retrieving information from the database, along with application functionality. Potential applicants should have experience with or a willingness to self-teach the following:

* SQLite3
* Nodejs and ExpressJS
* Websockets

Applying for a Position

* Create a resume, portfolio, and cover letter
* Email them to [csmith@ytech.edu](mailto:csmith@ytech.edu)
  + You may use your email as your cover letter
  + Be specific about which position(s) you are applying for, why you want them, and why you are qualified for them.
* Unserious or humorous applications will not be considered
* The same way your boss does not pay you to fill out applications for other jobs, applying for this job should be done on your own time.

Jukebar (single contract)

Develop an application that users can log into, and with the appropriate class permissions, either play sounds from a list of preinstalled sounds, play the audio from a youtube video, or control a spotify account remotely.