JOSEPH BABY PALLIPADAN

JAVASCRIPT, PYTHON, C++, JAVA

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github.com/JosephPallipadan

EDUCATION

MICHIGAN STATE UNIVERSITY (3RD YEAR)

GPA: 3.98 | Expected Graduation: May 2023

East Lansing, MI

B.Sc. Computer Science

Minors in Data Science and Japanese

Relevant Coursework

- Object Oriented Programming **(C++)**
- Computational Modeling Tools & Techniques **(Python)**
- Discrete Structures
- Multivariable Calculus
- Data Str. And Algo. **(Python)**

AWARDS

- MSU International Tuition Grant + Honors Excellence Scholarship Total Value: **$136,000.0**
- **Dean's List** FS-2019 to SS-2021
- **Google Tech Challenge -** *Sep 2019* at Michigan State University
  Runner Up (~50 Participants)
- Heriot Watt University (Dubai) National Programming Competition – *Mar 2019*
  Runner-Up (~300 Participants)

LANGUAGES

English - Native Fluency

Japanese - Full Working Proficiency

French – Limited Working Proficiency

Malayalam - Bilingual Fluency

OTHER NOTEWORTHY PROJECTS

github.com/JosephPallipadan/Competition-Hub

github.com/JosephPallipadan/ISOTOXAL

github.com/JosephPallipadan/ASCIIArt-CPlus-Plus

SKILLS

Vue.js, React, Unity, Node.js, Neural Networks, Socket.io, Express.js, Google Cloud, Regex, Firebase, End to End Testing, MongoDB, Vuex, Phaser.js, Object Oriented Programming

EXPERIENCE

DEVELOPER EXPERIENCE INTERN – RAWBANK ILICOCASH

Rawbank Fintech Department, Kinshasa, *DRC /* **May 2021 – August 2021**

- Developed **Python, Node.js and JavaScript Interface** for Payment Acceptance API of IlicoCash a mobile wallet/payment platform specifically built for the DRC. Reduced average integration time from **~45 minutes to ~5 minutes**.
- Identified and reported discrepancies in API responses regarding specifications including **error code mismatches** and **missing CORS headers** for browser use.
- Identified inefficiency in merchant sign-up process and proposed and implemented **online portal** + **automated contract generation system** to allow for a more streamlined process.

FULL STACK WEB DEVELOPER

The Time Piece Club, Dubai / **Aug 2020 – October 2020**

- **Led** two-man team developing the website for the **watch subscription service startup**.
- Vue.js **(Composition API)** + Firebase Single Page App with Integrated Payment Portal and real-time synced rental bookings.
- Continuously communicated with management and implemented requests for changes.
- Built an admin portal for more simplified access to classified data and analytics.
- Using Firebase Cloud Functions to implement automated emails and introduce added security to data access.

PROJECTS

JPN-COMPANION *(Jan 2020 - Present)* **-** jpncompanionserver.web.app

Website that serves as a companion to the Elementary Japanese program at MSU.

- Used Vue.js and Google Firebase to create a Responsive Single Page App with real-time synced user-generated word list sharing.
- Used Google Tesseract, Regex, special reverse spread-fill algorithm and several other Python Packages to extract relevant text from **768 pages of scanned images** of the textbooks.
- Used CNN based machine learning to **upscale kanji stroke order GIFS** as requested by Professor. Also used Google Cloud Text-to-Speech along with JavaScript *ReadableStream* API to implement **on-demand text-to-speech** for vocabulary and quiz modules. Hosted as microservices using Firebase Cloud Functions.
- Used Vuex and Vue-Router for robust state management and routing.

NAMSOR-CLIENT *(Aug 2019- Sep 2019)* **-** github.com/JosephPallipadan/Namsor-API-Wrapper-Python

Fully documented and unit tested Python Wrapper for the NamSor API

- Python Package that simplifies accessing the NamSor name to gender/race/ethnicity classification API and adds convenience features including Export to Excel and easy access to NamSor-recognized country strings.
- Made use of Python OOP features such as abstract classes and inheritance to create an easily extensible and maintainable codebase.
- Package has been **officially approved** by NamSor.com with over **20,000** downloads.

GANTTLET *(Jun 2020 – Aug 2020)* **-** github.com/HYO-Altair/ganttlet

Gantt Chart based project management web app featuring real time collaboration

- Single Page App featuring robust authentication and invite-based real-time collaboration built using React and Firebase as part of the **Hack-Your-Own** Online Internship program.
- Worked remotely as part of a team of 4 people, extensively using Git and GitHub to facilitate efficient collaboration. Implemented the majority of Firebase related functionality.
- Was the main contributor to syncing of Gantt chart task-data and presence-indication. Integrated React Redux with Firebase. Also implemented **end-to-end testing** with **Cypress**.