

Alicia Mira Kim

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EDUCATION

App Academy | *Full Stack Software Engineering Bootcamp*

JUL 2020 – DEC 2020

Towson University | *Bachelor's Degree, General Design*

GRADUATED 2013

EXPERIENCE

Online Instructional Assistant (Software Engineering Course) | *App Academy*

FEB 2021 – PRESENT

- ❖ Aided students during pair programming assignments ex. troubleshooting bugs, code reviews, answering questions.
- ❖ Built curriculum material, including programming assignments and projects such as **Bejeweled** in the terminal, for students to practice concepts like object-oriented programming, promises, and single responsibility principle.
- ❖ Contributed to curriculum improvement with code reviews, opening **GitHub** issues, and making pull requests.

CAD & Web Consultant | *Optical Scientific Inc.*

APR 2018 – JUL 2020

- ❖ Updated assembly manuals with **Rhino3D** for **CAD**, site edits with **HTML** and **CSS**, and ad materials with **Photoshop**.
- ❖ Wrote **Python** script to automate a process to merge, rotate, and rename office network directory's **PDF** files.

Online English Tutor (ESL) | *VIPKid*

NOV 2017 – JUL 2020

English Teacher (South Korea, ESL) | *EPIK (English Program In Korea)*

JAN 2014 – DEC 2016

PROJECTS

Create & Play Platform for Text Adventures (*JavaScript, Python, SASS, React, Flask, Express, Postgres, Docker*)

[live](#) | [GitHub](#)

- ❖ Created **single-page application** frontend with **React** and **Redux** and **REST API** backend with **Flask**, **SQLAlchemy** and **Postgres**. Integrated a **React Express** project into this project's frontend with the backend retained as a second **API**.
- ❖ Built **REST API** routes of **CRUD** operations for characters, places, stories, scenes, choices, items, conditions and skills.
- ❖ Enabled users to build node-based, branching story games by implementing drag-and-drop flowchart functionality.
- ❖ Incorporated image uploader with thumbnail preview and loading bar using **Amazon AWS S3** to host images.
- ❖ Constructed character generator that navigates database relationships between categories, tags, and chance ratios with dynamically-constructed queries and chained filtering for customizable, internally-consistent weighted-random results.
- ❖ Scripted **Python** web scraper to gather over 20,000 names with associated gender, origin country, etc. in **JSON** format.
- ❖ Developed automated unit testing suite for functions and **API** calls with **pytest**.

Good-Habit Builder Productivity App (*JavaScript, Python, CSS3, React, Flask, SQLAlchemy, Postgres, Docker*)

[live](#) | [GitHub](#)

- ❖ Wrapped **React useContext** and **useReducer** hooks in provider components to handle and normalize the frontend store.
- ❖ Maintained semantic **HTML** and modular, scalable **CSS** stylesheets by applying **SMACSS** principles to differentiate between global-scoped, module-scoped, layout-type, state-type, and theme-type style rules.
- ❖ Developed **Responsive Web Design** for user dashboards by exploring **CSS** layout solutions flex, grid, and multicolumns.
- ❖ Displayed user habit history with line graph and calendar heat map data visualization tools from **recharts** library.
- ❖ Implemented full stack error handling to gracefully handle form validations and user-facing error messages.

Kitchen Scraps: Match-Three Puzzle Game (*Python, Pygame, Aseprite*)

[itch.io](#) | [GitHub](#)

- ❖ Conceptualized and completed working prototype of core game logic within three days for **GMTK Game Jam 2019**.
- ❖ Implemented **GUI** functionality for user input (ex. select, cancel, show tips) and visual and sound-based feedback.

The Far Rings: A Space Opera Visual Novella (*RenPy, Photoshop, Illustrator, AfterEffects, Procreate, Audacity*)

[site](#) | [Steam](#)

- ❖ Published on game distribution platform **Steam** after starting from a prototype made in **Global Game Jam 2019**.
- ❖ Filled gaps in a volunteer-team-based pipeline to push the project to production-ready state as a: project manager, developer, editor, writer, character artist, background colorist, sound editor, web designer, and marketer.

SKILLS & TECHNOLOGIES

TECHNOLOGIES Python, JavaScript, TypeScript, HTML5, CSS3, SASS, Bash, WSL2, Git, React.js, Redux, Express.js, Node.js, Flask, Django, PostgreSQL, SQL, SQLAlchemy, Prisma, Docker, Material-UI, Pug, Jinja2, Pytest, Mocha, Chai, matplotlib, regex

DESIGN TOOLS Adobe (Photoshop, Illustrator, InDesign, AfterEffects, Lightroom), Rhino3D, Blender 3D, 3D Maya, Audacity