

# Alicia Mira Kim

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## EXPERIENCE

### Software Engineer | Vareto

APR 2021 — SEP 2022

- Collaborated on multi-engineer projects to build a **custom table creator displaying integrated data**.
- **Added several user options for building chart visualizations** including the ability to add data labels, area charts, stacked charts, auto-generated titles, and custom time ranges.
- Styled web features (ex. pages, modals, visualizations) using **SCSS** and **JS-in-CSS** both according to designer-provided specs from **Figma** and by personal judgment when required while maintaining faithful to the established design system.
- Greatly improved app usability on mobile using **responsive web design**.
- Maintained **code quality** through adhering to team engineering naming conventions, **AirBnB linter** and **prettier configs**, logging Lighthouse performance, refactoring code, and **promoting better web accessibility practices** like semantic html.
- **Created and deployed app migrations** to transform stored JSONs, change column names, etc. to match changes in schema.
- Implemented a complex **useReducer hook** to isolate the complex logic for a two-way data structure conversion between the UI layer and data layer.
- **Deployed app to prod environment** through weekly multi-step QA process as part of on-call duties.
- **Improved release cycle workflow** by introducing automated changelogs, improving documentation, and proposing steps to improve cross-team communication (ex. a readable standard format for commit titles).
- **Triaged and troubleshooted bugs** through client and api layers of the webapp. ex. Debugged nonsensical user-facing error messages in the UI by tracing wrongly-formatted return messages from api for permission-restricted content.
- Wrote several **unit tests**, applying **TDD (Test-Driven Development)** when practical.
- Researched and introduced new libraries like **react-quill for a user annotations feature** and **react-datepicker for date and date-range selection components**.
- Worked across teams in a **fully-remote environment** via tools like Asana, Jira, Slack, Notion, Figma, Zoom, Google Calendar.

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

FEB 2021 — APR 2021

- Aided students during pair programming assignments ex. troubleshooting bugs, code reviews, answering questions.
- Built curriculum material, including projects like **Bejeweled** in the terminal, for students to practice **promises** and **SRP**.

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## PROJECTS

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

[GitHub](#)

- Created **single-page application** frontend with **React** and **Redux** and **REST API** backend with **Flask, SQLAlchemy** and **PostgreSQL**. 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.
- Incorporated image uploader with thumbnail preview and loading bar using **Amazon AWS S3** to host images.
- 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**.

### Habit Builder Productivity App (JavaScript, Python, CSS3, React, Flask, SQLAlchemy, PostgreSQL, Docker)

[GitHub](#)

- Wrapped **React useContext** and **useReducer** hooks in provider components to handle and normalize the frontend store.
- Developed **Responsive Web Design** for user dashboards by employing **CSS** layout solutions **flex, grid, and multicolumns**.

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

[Steam](#)

- **Published** on game distribution platform **Steam** after starting from a prototype made in **Global Game Jam 2019** with a volunteer team comprised of multiple writers, artists, musicians, and programmers.

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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

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## 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