# Abigail Dawson

**Software Engineer**
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## TECHNICAL SKILLS

**Software Development:** JavaScript, React, Node.js, Express.js, Python, Django, Flask ● HTML, CSS, Bootstrap ● REST, APIs
**Databases:** MongoDB, PostgreSQL, SQLAlchemy, data modeling | **Cloud and DevOps:** AWS, Docker, CI/CD tools | **AI:** OpenAI API
**Design:** Adobe Creative Suite, wireframes, Figma | **Collaboration:** Agile methodology, Jira, Trello ● Git branching, merging, code reviews

## PROFESSIONAL EXPERIENCE

**Software Engineering Intern**, Tobu Pengin, LLC | Remote                         **Feb 2024 - present**

- Actively contributing to the ongoing development and maintenance of Pengin-Pi, a comprehensive open source **CRM** software enriched with **ERP** features, using **Python** and **Flask** framework; enhancing software functionality through development across the entire stack.
- Developing proficiency in **Amazon Web Services (AWS)**, containerization using **Docker**, **Nginx** web server configuration and various **cloud infrastructure** and **CI/CD** tools for efficient and reliable development and deployment process.
- Collaborating on a team of interns, engaging in **weekly standups** to track progress on issues and features, actively participating in **version control** to manage codebase changes, branching and **pull request reviews**, and receiving mentorship and training from project lead to ensure code quality and consistency.

## SOFTWARE DEVELOPMENT PROJECTS

**KnowNative** - Language learning app for reading comprehension | **JavaScript, React, Node.js, MongoDB**
Live Site | GitHub | Demo Video

- Designed intuitive user interface using **custom React components** and **Bootstrap** framework; conducted user research survey to prioritize features for language learners. Collaborating with UX designer to enhance **user experience** and **responsive design**.
- Addressed challenges in handling traditional Chinese texts by integrating **chinese-tokenizer npm package** and **Google Cloud Translate API** to automatically generate flashcards, view full-sentence translations and implement other valuable features for language learners.
- Leveraged generative AI technology through **OpenAI API** integration to dynamically generate easier versions of imported texts.

**Notealong -** Collaborative learning platform for coding students | **Python, Django, PostgreSQL, Bootstrap**
Live Site | GitHub | Demo Video

- Led a team of three to develop a full-stack web application in **Python**, **Django** and **PostgreSQL** database, with **Bootstrap** for UI design.
- Used **Figma** to create **wireframes**, **Trello** for tracking user stories, and **ERD mapping** to create intuitive, feature-rich user interface.
- Leveraged **Django authentication** for account creation and login functionality for enhanced security.

## EDUCATION

**GENERAL ASSEMBLY  |  *Certificate in Software Engineering***                         **Oct 2023 - Feb 2024**
Intensive, 12-week, 500+ hour program focused on full-stack development, product design fundamentals, object-oriented programming, MVC frameworks, data modeling, and team collaboration strategies. Created three full-stack applications across MERN and Python/Django stacks.

**GEORGETOWN UNIVERSITY  |  *M.A. in Asian Studies***                         **Aug 2017 - May 2019**
*Edmund A. Walsh School of Foreign Service*
Foreign Language and Area Studies Fellowship Program ( 2017 ) | concentration in Taiwanese history | 3.9 GPA

**Foreign study:** National Taiwan University (2016-2017) | Waseda University, Tokyo (2014-2015)
**Languages**: Japanese and Mandarin (limited working proficiency)