

# Sean Laughlin

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## EXPERIENCE

### KeiganMotors Inc.

Sep 2023 – Jan 2024

*Front-End Development Intern*

Kyoto, Japan

- Building dynamic and responsive UI components using React.js for the brushless motors, enabling seamless control and interaction via Bluetooth for diverse applications from robotics to IoT devices
- Collaborating with engineering teams to integrate developer-friendly APIs and SDKs into the UI, ensuring an intuitive user experience for controlling robotic systems
- Enhancing UI performance for real-time data from the robots, to guarantee adaptability

### OIT HelpDesk - University of Tennessee

Sep 2022 – Present

*IT Support Specialist*

Knoxville, Tennessee

- Providing timely and effective IT support to students, faculty, staff, and alumni via phone or in person
- Collaborating with colleagues to recover from multiple malware and phishing attacks
- Creating and maintaining Knowledge base Articles to educate students and staff on common IT issues

### VolThon

Apr 2022 – Present

*Executive Director of Finance*

Knoxville, Tennessee

- Managing all teams within the finance division, including Data Management, Fundraising, Partnerships, and Purchasing, in collaboration with their respective directors to support the organization's goals
- Created documentation to model spending/fundraising analytics, resulting in improved efficiency and decision-making
- Designed and developed a point-of-sale application in Swift for iPad that improved efficiency of both the sales teams and the data management team

## PROJECTS

GITHUB: <https://github.com/seanwillough>

### SmartPaws

Jun 2023 – Present

*Swift and CoreData*

- iPhone app that combines a pomodoro study timer with a Tamagotchi, incentivizing productivity by earning coins for studying to keep a virtual dog fed and happy
- Implemented a task system with tags for effective task management

### Personal Portfolio

May 2023 – Present

*HTML, CSS, and JavaScript*

- Personal website about myself and previous experience with relevant links and information

### Fantasy Football Lineup

Mar 2023 – May 2023

*Python*

- Genetic algorithm used to optimize fantasy football lineup picks, achieving superior performance by rating individual players, and creating lineup fitness scores
- Leveraged mutation for continuous improvement, resulting in an average increase of one touchdown compared to the average

### VolThon Merch App

Feb 2023 – Sep 2023

*Swift and CoreData*

- iPad App that serves as a merch inventory tracker has streamlined merchandising and improved data management for VolThon
- Contains all sales analytics along with the relevant information, being able to be exported in a CSV format with optional filters
- Retains every previous transaction including the date of purchase, event purchased at, form of payment, and buyer's information along with the ability to contact the buyer through email and to also send receipts of purchase

### Let's Do Something

Dec 2022 – Feb 2023

*Swift, CoreData, and Yelp Fusion API*

- iPhone app that enables users to save and organize venues for future visits
- Users can create lists for various purposes, such as planning date nights or tracking coffee shops they want to visit

## EDUCATION

### University of Tennessee-Knoxville | Bachelor of Arts and Sciences in Statistics

Expected May 2024

- GPA: 3.00
- Organizations: VolThon, ModelUN, UTK Jazz Big Band, UTK Small Jazz Ensembles

## SKILLS

**Coding Languages** – C, C++, C#, HTML, CSS, JavaScript, React.js, Angular.js, Vue.js, Node.js, .NET, Python, R, and SQL

**Software & Tools** – APIs, Git, GitHub, Microsoft Office Suite, Jupyter Notebooks

**Japanese** – JLPT N5 certification