

# SHANNON FALK

## Software Engineer

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[PORTFOLIO](#)

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## SKILLS

**Languages:** Javascript, Python, SQL, HTML, CSS

**Frameworks/Tools:** React, Redux, Express, Sequelize, Flask, SQLAlchemy, PostgreSQL, AWS, Docker

**Key Skills:** Pair Programming, Object-Oriented Programming (OOP), Test-Driven Development (TDD), Scrum Methodologies

## PROJECTS

**BUNS IN YOUR AREA** (ReactJS / Redux / Flask / SQLAlchemy / PostgreSQL)

[live](#) | [github](#)

*An application that helps people find local, adoptable rabbits.*

- Leveraged Flask server routes and SQLAlchemy join queries to reduce the number of calls to the database allowing for quicker load times and an overall smoother user experience.
- Implemented Amazon Web Services (AWS) S3 to increase the efficiency of the server load and to improve the user's ability to upload photos directly from their computer.
- Designed a database to include a self-referential users-to-reviews table utilizing PostgreSQL in order to review other users.

**DICEY** (ReactJS / Redux / Flask / SQLAlchemy / PostgreSQL)

[live](#) | [github](#)

*An Etsy inspired application to establish a marketplace for handcrafted tabletop role-playing game content.*

- Developed a shopping cart component that handled product data by utilizing localStorage in the Web Storage API which allowed the products in the cart to persist through the app.
- Collaborated with group members using agile software development techniques to swiftly construct a search component.

**SIP!** (ReactJS / Redux / Express / Sequelize / PostgreSQL)

[live](#) | [github](#)

*A Yelp inspired application that allows users to search and review businesses that offer afternoon high-tea service.*

- Integrated an open-source server-side package to make geocoding possible from user-provided address data.
- Built a custom star rating system that calculates the number of stars based on user input and displays that many stars in the form of individual CSS image tags.

## EXPERIENCE

**PROGRAMS AND BUSINESS COORDINATOR** | University of Pittsburgh

Sep 2018 - Feb 2022

- Nominated for the Orosz Award for Excellence in Emerging Leadership which recognizes staff members who have exhibited excellence in their performance and displayed leadership qualities among their peers.
- Planned and executed over 30 virtual events per semester for four different departments that boosted student body engagement by 60% during the early stages of the COVID-19 pandemic.
- Prepared and presented a cost-benefit analysis for hotel accommodations currently in use that showed possible departmental cost savings between \$280 and \$840 per semester by switching vendors.
- Increased the efficiency of the travel reimbursement process by creating a travel resource page for the department websites and building a fillable reimbursement form using Adobe Acrobat Pro.

**ADMISSIONS COORDINATOR** | Carnegie Museums of Art and Natural History

Feb 2017 - Aug 2018

- Supervised the admissions desks, appropriately fielding between five to 10 escalated member/non-member issues per day.
- Trained new Visitor Services Representatives on museum policies, point of sales software, and museum collections who went on to be promoted within the department.
- Ensured the smooth check-in of school groups during peak group visits season when the museums see between 400-500 students per day.

## EDUCATION

**Web Development** - App Academy | Summer 2022

**Bachelor of Science in Business Administration** - University of Pittsburgh | 2009 - 2013