

# Katie Piele

Software Engineer

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## SUMMARY

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Professional Skydiver turned Software Engineer, with a background in Physics, a team mentality, strong communication skills, and an analytic mindset. Eager to leverage a unique blend of skills and experiences to contribute to a team as a Software Engineer to solve complex problems, work across the stack, and create clean, reusable code.

## SKILLS

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Languages • JavaScript, Python, HTML, CSS, SQL.

Frameworks/Tools • React, Redux, Node.js, PostgreSQL, Express.js, Flask, Playwright, Postman, AWS S3, Git Version Control.

Relevant Skills • REST API, Pair Programming, Object Oriented Programming, Object-Relational Mapping, Test-Driven Development, Chrome Dev Tools, Systems Architecture, strong communication skills, team mentality, self-starter.

## PROJECTS

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FriendZone • [JavaScript](#) • [React](#) • [Redux](#) • [Python](#) • [Flask](#) • [SQLAlchemy](#) • [CSS](#) • [PostgreSQL](#) • [AWS S3](#) • [Node.js](#) [Live](#) • [Github](#)

- Collaborated with a team of 4, adhered to **Agile methodologies**, conducted peer **code reviews** using **Git version control**, utilized Github pull requests to minimize merge conflicts and ensure the reliable integration of new features.
- Integrated **AWS S3** to deploy and maintain the application images in a cloud environment, ensuring scalability.
- Implemented **SQLAlchemy ORM** to interact with a PostgreSQL database, leading to seamless data retrieval and manipulation.

Plantsy • [JavaScript](#) • [React](#) • [Redux](#) • [Python](#) • [Flask](#) • [SQLAlchemy](#) • [CSS](#) • [PostgreSQL](#) • [Node.js](#) • [AWS S3](#) [Live](#) • [Github](#)

- **Refactored** and optimized code for better performance, readability, and maintainable architecture.
- Utilized **Redux** store normalization for data retrieval and rendering, minimizing fetch calls and achieving O(1) time complexity.
- Implemented robust backend and front-end **validations** to ensure data integrity and enhance user interactions.

SpotBnB • [JavaScript](#) • [React](#) • [Redux](#) • [Express.js](#) • [Postman](#) • [SQLAlchemy](#) • [CSS](#) • [PostgreSQL](#) [Live](#) • [Github](#)

- Employed a **test-driven development** environment using **Postman** to design and execute custom unit tests for **RESTful API**, validations, and error handling, and **Chrome Dev Tools** for testing, debugging, and development.

## WORK EXPERIENCE

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Account Manager • *The Edge Agency* Jan 2022 - Jan 2023

- Averaged over 10% monthly growth for accounts and increased engagement by an average of over 30% monthly.

Skydiving Instructor and Personal Coach • *Global Skydiving Centers* Mar 2015 - Present

- Served as a skilled skydiving instructor and personal coach, providing comprehensive training and guidance to individuals of all skill levels worldwide, totaling over 5,000 skydives.
- Played a key role in breaking two world records with a team of 80 women, utilized expertise to train participants and deliver motivational speeches, inspiring and empowering women to achieve success.
- Partnered with Women in Skydiving Network to drive outreach, empowering women to take on advanced roles, and elevating female tandem instructors by 50%.

Measurements While Drilling Field Engineer • *Schlumberger* Mar 2013 - Mar 2015

- Reduced drilling downtime by 20% through efficient inventory management and resource allocation on Drill Ships.
- Maintained a zero-incident record by enforcing safety and quality standards, ensuring a safe work environment.

## EDUCATION

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Full Stack Web Development Certification • *App Academy* July 2023

- Spent 1000+ hours coding, daily paired programming, gaining hands-on experience in full-stack development

Bachelors of Science, Physics • *Metropolitan State University of Denver* Dec 2012