Kate Barouch

San Francisco, CA | kate.barouch@gmail.com | [Portfolio](#) | [LinkedIn](#) | [Github](#)

EDUCATION

Hackbright Academy, San Francisco, CA   *June 2023*
Software Engineering Fellowship - Accelerated, 12-week, software engineering program

California Polytechnic State University, San Luis Obispo, CA
Bachelor of Science, Biology

TECHNOLOGIES

Languages | Python, JavaScript (AJAX, JSON, React), HTML, CSS, SQL
Frameworks & Libraries | Flask, jQuery, Bootstrap, Jinja, openAI, PIL, svgwrite, scikit-learn
Database & Industry Tools | PostgreSQL, Git, GitHub, AWS

PROFESSIONAL EXPERIENCE

Project: **AI Paint-by-Numbers**
[GithubRepo](#) | [Web Application](#)

- Engineered a unique AI generated paint-by-numbers platform using DALL-E API and deployed on AWS, incorporating JavaScript, HTML, Python, and CSS.
- Developed Python algorithms and employed scikit-learn to transform images into customizable paint-by-numbers templates, utilizing K-means clustering.
- Leveraged a diverse tech stack including Jinja, Flask, PIL, svgwrite, svgpathtools, jQuery, and AJAX for efficient image and data management in a SQL database.
- Designed and implemented a visually appealing and interactive website to enhance user engagement and experience.

Wine Industry Professional   *April 2020 - April 2023*
Martin Ray Winery, Pisoni Winery, Patz and Hall, Enterprise Vineyards

- Collaborated with the winemaking team during blending and bench trial tastings.
- Performed wet chemistry and enzymatic analysis on juice and wine samples.
- Recorded laboratory data and analyzed wine samples in winery databases.

Medical Assistant   *March 2018 - December 2019*
Dermatology Center of the East Bay

- Collaborated in a multi-disciplinary patient care team with professionalism and care.
- Conducted comprehensive medical history interviews and roomed patients.
- Assisted doctors during visits, scribing and aiding in minor procedures.