

# Kate Barouch *Software Engineer*

San Francisco, CA | [kate.barouch@gmail.com](mailto:kate.barouch@gmail.com) | 925-216-7649 | [LinkedIn](#) | [Github](#)

## EDUCATION

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

**California Polytechnic State University**, San Luis Obispo, CA *June 2017*  
*Bachelor of Science, Biology*

## TECHNOLOGIES

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**Languages** | Python, JavaScript (AJAX, JSON, React), HTML, CSS, SQL

**Frameworks & Libraries** | Flask, jQuery, Bootstrap, Jinja, openAI, PIL, svgwrite, svgpathtools

**Database & Industry Tools** | PostgreSQL, Git, GitHub

## PROFESSIONAL EXPERIENCE

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**Software Engineer (student)** *April 2023 - present*  
*Hackbright Academy*

Capstone Project: **AI Paint-by-Numbers**

[GithubRepo](#) | [Web Application](#)

- Created a unique image generation platform using the DALL-E API, employing JavaScript, HTML, Python, and CSS languages.
- Developed Python algorithms to convert images into paint-by-numbers templates with specified color palettes, enhancing user engagement.
- Utilized Jinja, Flask, Bootstrap, PIL, svgwrite, svgpathtools, jQuery, and AJAX libraries to efficiently store and retrieve images and associated data in a SQL database.
- Created a visually appealing and interactive website using HTML and CSS.

**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.
- Collected viticulture data and monitored vineyard health and maturity.

**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.