

# Lauren Engel

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## EDUCATION

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### Kutztown University of Pennsylvania

Bachelor of Science in Computer Science

GPA: 3.86

Kutztown, PA

Aug. 2021 – May 2025

Relevant Coursework: Advanced Scientific Programming, Advanced Scripting for Data Science, Artificial Intelligence I, Computer Networks, Data Structures, Intro to Mobile Architecture and Systems, Object-Oriented Multimedia Programming, Operating Systems, Network and Secure Programming, Programming Languages, Software Engineering, SQL Programming, Unix Scripting and Administration

## TECHNICAL SKILLS

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**Languages:** C, C++, CSS, HTML, Java, JavaScript, OCaml, Prolog, Python, SQL (SQLite)

**Frameworks:** Firebase, Flask, Material UI, Next.js, OpenAI API, React.js, React Native

**Developer Tools:** Expo, Git, GitHub, Linux, Visual Studio Code

**Libraries:** Matplotlib, NumPy, pandas

## PROJECTS

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### Cook AI | *Python, Flask, OpenAI API, Firebase, HTML/CSS/JavaScript*

Feb. 2024 – Present

Currently working with four other students to develop a website that uses OpenAI's API to generate recipes based on ingredients a user has in their kitchen, incorporating the Agile Software Development lifecycle.

- Using Google Firebase to develop a JSON fridge database to store the user's ingredients, as well as preferences such as dietary restrictions, allergies, and serving size.
- Providing users with the option of using a website hosted by Firebase Hosting, as well as an executable for downloading on a local machine.
- Utilizing Flask to host the OpenAI API, allowing users to generate a recipe using their ingredients and preferences and create a formatted recipe output.
- Creating and refining AI prompts to ensure the generation of recipes based on only the ingredients in the user's virtual fridge.
- Status: To be completed in December 2024. A prototype is currently available on GitHub.

### Jumper | *Java*

Sept. 2018 – Oct. 2018

As a high school sophomore, worked with two other students to develop a Java platformer game similar to Doodle Jump.

- Won the 2018 Congressional App Challenge for our congressional district.
- Displayed in the U.S. Capitol Building & on the House of Representatives' website for 12 months.

## HONORS

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Kutztown University Dean's List

2021-Present

Kutztown University EMACS Scholar

2021-Present

Kutztown University Presidential Scholar

2021-Present