Lauren Engel

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EDUCATION

Kutztown University of Pennsylvania   Kutztown, PA

Bachelor of Science in Computer Science   Aug. 2021 – May 2025

Certificate in Scripting for Data Manipulation

GPA: 3.87

Relevant Coursework: Advanced Scientific Programming, Advanced Scripting for Data Science, Artificial Intelligence I, Computer Networks, Data Structures I and II, Interdisciplinary Software Rapid Prototyping, Intro to Big Data, Intro to Mobile Architecture and Systems, Operating Systems, Network and Secure Programming, Programming Languages, Software Engineering I and II, SQL Programming

TECHNICAL SKILLS

Languages: C, C++, CSS, HTML, Java, JavaScript, OCaml, Prolog, Python, SQL (SQLite)
Frameworks and Libraries: Apache Hadoop, Apache Hive, Apache Pig, AWS, Firebase, Flask, Material UI, Next.js, OpenAI API, React.js, React Native
Developer Tools: Expo, Git, GitHub, Linux/Unix, Visual Studio Code
Libraries: Matplotlib, NumPy, pandas, Selenium

PROJECTS

Data Fox | Python, Flask, Docker, Selenium, HTML/CSS/JavaScript   Feb. 2025 – May 2025
Developing a website to simplify open-source intelligence with the use of web scraping, incorporating the Agile and Scrum Software Development lifecycles.
- Using Selenium to input user-provided known data about an individual or company into websites to search for additional data and allowing user export of data via CSV files.

Cook AI | Python, Flask, OpenAI API, Firebase, HTML/CSS/JavaScript   Feb. 2024 – Dec. 2024
Developed a website that uses OpenAI's API to generate recipes based on ingredients a user has in their kitchen, incorporating the Agile and Scrum Software Development lifecycles.
- Used 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.
- Utilized Flask to host the OpenAI API, allowing users to generate a recipe using their ingredients and preferences and create a formatted recipe output.
- Created and refined AI prompts to ensure the generation of recipes based on only the ingredients in the user's virtual fridge.

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 congressional district PA-17.
- Displayed in the U.S. Capitol Building & on the House of Representatives' website for 12 months.