Lauren Engel

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EDUCATION

Kutztown University of Pennsylvania   Kutztown, PA
Bachelor of Science in Computer Science, Summa Cum Laude   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: Apache Hadoop, Apache Hive, Apache Pig, AWS, Firebase, Flask, Material UI, Next.js, OpenAI API, React.js, React Native
Developer Tools: Agile, Docker, Expo, Git, GitHub, Kanban, Linux/Unix, Microsoft Office Suite, PowerShell, Scrum, SDLC, Visual Studio Code, Windows
Libraries: Matplotlib, NumPy, pandas, Playwright, Selenium

PROJECTS

Data Fox | Python, Flask, Docker, Playwright, Selenium, HTML/CSS/JavaScript   Feb. 2025 – May 2025
- Developed a web app to automate open-source intelligence data gathering through web scraping, incorporating the Agile and Scrum Software Development lifecycles.
- Utilized Playwright and Selenium to scrape public information about an individual across multiple websites and enabled user review and export of the 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.
- Designed a Firebase database to store the user's virtual fridge, as well as preferences such as dietary restrictions, allergies, and serving size.
- Engineered API endpoints to handle ingredients and preferences and create a formatted recipe output using OpenAI's API.
- Created and refined AI prompts to ensure the generation of recipes based on only the ingredients in the user's virtual fridge and preferences.

Jumper | Java   Sept. 2018 – Oct. 2018
- Developed 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.