Allie Fehr

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EDUCATION

University of Pennsylvania   Philadelphia, PA
Bachelor of Arts in Computer Science, Cognitive Science   Expected May 2025
Cumulative GPA: 3.74/4.0
Relevant Coursework: Data Structures & Algorithms, Web Development, Databases, Software Engineering & Design
Involvement: Data Structures & Algorithms (CIS 1210) and Programming Languages (CIS 1200) Tutor

WORK EXPERIENCE

Yahoo   Remote
Software Engineer Intern   Jun 2024 – Aug 2024
- Built user-facing ad template for Yahoo Search retailer queries, estimated to generate **10 million** in revenue yearly
- Translated Figma design into reusable component with **Svelte** frontend framework, **TypeScript**, **HTML**, and **Tailwind CSS**
- Implemented link click and page view tracking for ad template by communicating with Product team to gather requirements
- Increased ad click rate by **30%** by creating **React** preview component on Content Management System (CMS) to catch bugs
- Designed **NestJS** backend route to return customized ad preview HTML based on user-submitted parameters
- Ensured CMS functionality by coding **10** unit and integration test files using Vitest, Supertest, mocking, and custom utilities

Children's Hospital of Philadelphia   Philadelphia, PA
Software Engineer   Aug 2023 – May 2024
- Developed full-stack desktop app to manage lab usage for **100+** researchers using **Python** and **SQLite** relational database
- Implemented daily synchronization to add user events to 15 local databases by sending and receiving data with iLab API
- Created 4 authentication options such as website sign-in by accessing credentials from browser with Selenium WebDriver

Archer Daniels Midland   Erlanger, KY
Data Scientist Intern   May 2023 – Aug 2023
- Improved crack identification efficiency in silos by **70%** by building object detection model with Azure Computer Vision
- Produced crack predictions for **800+** input images for end user by creating data flow with **Python** and Azure Blob Storage

PROJECTS

[Budget Buddy](#) | React, TypeScript | [Chrome Web Store](#)   Aug 2024 – Sep 2024
- Published Google Chrome extension allowing shoppers to view and edit their budget in the browser while shopping online
- Enabled seamless usability by automatically detecting product webpages on **5000+ sites** and injecting budget tool side panel
- Delivered consistent user experience by utilizing chrome.storage API to store and persist changes to user budget data
- Utilized Shadow DOM to encapsulate extension styles, preventing conflicts between extension and web page styles

[Move Wise](#) | React, JavaScript, Node.js, Express.js, Python, MySQL   Mar 2024 – Apr 2024
- Developed full-stack web relocation tool to research companies in cities, company performance, and real estate prices
- Built **MySQL** database with 5 tables by designing 3NF schema through normalization to reduce data redundancy
- Reduced **SQL** query runtime on tables with >1 million records from **>1min to <1s** by optimizing with caching and indexing
- Designed over **10 Express.js** RESTful backend APIs, enabling dynamic data retrieval and user-specific recommendations

Secondhand Sense | React, JavaScript, Node.js, Express.js, MongoDB   Sep 2023 – Dec 2023
- Deployed full-stack social media web app promoting second-hand fashion by collaborating on small team of engineers
- Generated live updates for feed, post comments, and followers count by implementing websockets with Socket.IO library

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, Java, HTML, CSS, SQL
Frameworks: React, Svelte, Node.js (Express.js, NestJS), Jest, Material-UI, JUnit
Developer Tools: Git, GitHub, Docker, Jira, Screwdriver CI/CD, Microsoft Azure Cloud Platform