Christopher Farber

915-490-6814 | cfarber@purdue.edu | https://linkedin.com/in/chris-farber | github.com/farbs03 | chrisfarbs.com

EDUCATION

Purdue University — August 2022 - May 2026 (Expected)
Bachelor of Science in Computer Science (3.83 GPA) — *West Lafayette, IN*

RELEVANT COURSEWORK

Computer Science: Java Programming, C Programming, Data Structures & Algorithms, Computer Architecture, Systems Programming, Competitive Programming, Data Mining & Machine Learning
Math: Linear Algebra, Statistics, Calculus III, Differential Equations

EXPERIENCE

iRODS — June 2023 - August 2023
Software Development Intern — *Chapel Hill, NC*
- Refactored Zone Management Tool to communicate with newly-developed HTTP API.
- Developed a Typescript wrapper library for the HTTP API, consisting of 50+ unit tests written with Jest.
- Created 120+ types to accomodate API request and response data structures.

National Transportation Consultants — June 2023 - August 2023
Software Development Intern — *Fishers, IN*
- Built and trained AI model with Azure to automate field detection and extraction in client documents.
- Designed and developed React.js web app to interface the AI model.
- Coordinated with CEO and software development team to integrate model into company's operations.

Primary Record — June 2022 - August 2022
Software Development Intern — *Fishers, IN*
- Collaborated with company founders to create AI web app to extract and categorize text on prescription labels.
- Deployed as a feature in company's main app.

PROJECTS

aire | *Next.js, OpenAI API, Overleaf API, Prisma, Tailwind CSS, tRPC, TypeScript* — February 2024 - Present
- Created a website where users can generate resumes & cover letters tailored to a job description from their profile.
- Implemented user resume parsing, allowing for uploaded resumes to be parsed into database schema.
- Collaborated with three other developers, and submitted to the hackathon Hackalytics 2024.

Computing Navigation Trends in Island Communities | *Python, GIS* — January 2024 - Present
- Developing computational seafaring model based on archaeological and paleoclimate data.
- Preprocessed and saved 1 year of wind data from NASA's MERRA-2 dataset.
- Integrated wind data into model's decision-making process.
- Visualized model's journey between islands, allowing for user to select the timeframe and location of the voyage.
- Presented preliminary research results at a workshop at the University of Hawaii Hilo.

Analysis of Online HPV Vaccine Hesitancy | *Python, Reddit API, pandas, NLP* — September 2023 - Present
- Created a script to collect data via Reddit's API from HPV-related subreddits as part of a research project.
- Utilized topic modeling to cluster the data and TF-IDF vectorization to extract keywords by cluster.
- Applied NLP methods to analyze differences in sentiment and subjectivity across clusters.
- Presented research at Purdue's 2024 Spring Undergraduate Research Conference.

Boilerexams | *React.js, React.js Query, TypeScript, Tailwind CSS* — September 2023 - Present
- Working with 15+ others to recreate the Boilerexams website, used by 4000+ Purdue students for exam prep.
- Designed and developed "Resources" page, enabling students to access external resources for a given course.

TECHNICAL SKILLS

Languages: Python, Java, C, C++, JavaScript, TypeScript
Frameworks: Node.js, Next.js, Tailwind CSS, Jest, Flask, Material-UI, PyTorch
Developer Tools: Git, Google Cloud Platform, Microsoft Azure, VS Code, PyCharm, IntelliJ, Docker, nginx
Libraries: React.js, pandas, NumPy, Matplotlib, TensorFlow, scikit-learn