

EPHRAIM AKAI-NETTEY

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EDUCATION

Yale University - New Haven, Connecticut, USA

Graduating May 2027

Major: Computer Science

Relevant Courses: Data Structures, Algorithms, Functional Programming, Computer Architecture, Object-Oriented Programming, Calculus, Discrete Math, Microeconomics, Macroeconomics

EXPERIENCE

Full Stack Developer - GradeBook

May 2024 - Present

- Designed intuitive wireframes using Figma, laying a solid foundation for frontend development
- Developed a user-friendly frontend interface, enabling students to view their reports
- Implemented automated report generation for end-of-semester student records, leveraging database-stored data
- Enhanced report accuracy by 40% and significantly reduced waiting times by 50% for students accessing their reports.

Research Assistant - Yale Psychology Department

September 2023 - March 2024

- Utilized Selenium to extract data from a targeted website
- Collected information on 3000+ prospective participants for the study increasing the potential participant pool by 30%
- Implemented data cleaning and transformation processes before storing information in SQL database
- Automated web scraping process using Python scripts, reducing time spent manually extracting data by 45%

J.P. Morgan Chase & Co Software Engineering Virtual Experience

August 2023 - September 2023

- Utilized data visualization to represent historical stock price movements
- Cross-boundary triggers using principal component visualization software such as perspective
- Analyzed stock ratios and created informative data feeds to aid in investment and trading decisions
- Gained skills in financial analysis and quantitative investment strategies

PROJECTS

TicTacToe | Python, OOP

- Designed and Developed a Python-based Tic-Tac-Toe game featuring an unbeatable AI opponent
- Implemented game logic using the minimax algorithm, enabling the AI to evaluate all possible moves and select the optimal strategy for each turn
- Created a user-friendly interface with clear game prompts and dynamic updates

Netten - Company Analysis App | Flask, JavaScript, Html, SQL

- Created a Flask web application to display revenues and net income of companies
- Dynamically updated charts based on real-time data with Alpha Vantage API
- Designed a form for user queries, facilitating efficient data retrieval and analysis
- Employed SQL to manage proficiently and store data in an SQLite database

Password Manager | Python, Tkinter, Json

- Built a user-friendly password management application
- Implemented an inbuilt password generator, creating 1000000+ strong and unique passwords
- Enhanced the app with robust error handling for various use cases, reducing user-reported issues by 80%
- Enabled functionality to save, search, and retrieve passwords

TECHNICAL SKILLS

- **Computer Languages:** Python|C|Racket|SQL|JavaScript|HTML|CSS
- **Tools:** Pandas|Github|Excel|Powerpoint|VSCode|Replit|Flask|Selenium|React|Linux|Unix|Node

AFFILIATION

- **Affiliation:** Colorstack, BlackGen Capital, Yale Entrepreneurial Society, Forage, Codepath