Henry Lee

317-809-5546 | lee4602@purdue.edu | linkedin.com/in/lofitea | github.com/LofiTea | lofitea-portfolio.vercel.app

Education

Purdue University | ***West Lafayette, IN*** GPA: 3.51/4.0

Bachelor of Science in Computer Science *August 2023 – Now*

Relevant Coursework

- **Completed Coursework:** Problem-Solving and Objected-Oriented Programming, Multivariate Calculus, Foundations of Computer Science, Programming in C, Python Programming, Elementary Linear Algebra
- **Current Coursework:** Computer Architecture, Data Structures and Algorithms

Projects

Beanie Clock | *Personal Project* July 2024 – Now

- Developed a web extension featuring a Pomodoro timer with HTML and CSS for design and JavaScript for back-end functionality
- Implemented settings management to configure session durations and customize the interval for long breaks
- Integrated a stats feature to monitor and display the number of work sessions, short breaks, and long breaks
- Enhanced user experience by providing real-time session updates and intuitive navigation

LofiTea Text Editor | *Personal Project* July 2024

- Developed a 1,000-line C text editor with features like file I/O, text editing, search, and syntax highlighting
- Enhanced problem-solving skills by identifying and fixing over 20 bugs during development
- Gained practical experience in C programming, handling user input, memory management, and performance optimization
- Organized and completed a complex project in 184 incremental steps

Tickets@Purdue | *CS18000 Project 5* October 2023 – December 2023

- Constructed a ticket-sharing marketplace where Purdue students can buy and sell tickets to sports games
- Employed IntelliJ with Java to develop features like networking, graphical user interfaces, and concurrency
- Created software to authenticate the user logging into the program and wrote test cases for the project
- Designed the graphical user interface to make it user-friendly for the user to interact with the program

Experience

Undergraduate Data Science Researcher August 2024 – Now

Purdue University: The Data Mine *West Lafayette, IN*

- Collaborated with Concrete Engine with a traditional n-tier web application
- Developed software solutions to orchestrate AI workloads across distributed computational resources
- Contributed to infrastructure development by managing physical CPUs, GPUs, and storage elements systems
- Derived actionable insights from data to inform system or human-driven actions

J.P. Morgan Software Engineering Virtual Experience May 2024

Forage *Seoul, South Korea*

- Set up a local dev environment by downloading the necessary files, tools, and dependencies
- Utilized PyCharm to build a dashboard to identify under/over-valued stocks
- Fixed broken files in the repository to make web application output correctly
- Used JPMorgan Chase's open source library called Perspective to generate a live graph that displays a data feed in a clear and visually appealing way for traders to monitor

Undergraduate Data Science Researcher January 2024 – May 2024

Purdue University: The Data Mine *West Lafayette, IN*

- Collaborated with Wikimedia Deutschland to find mismatches between Wikimedia and other external sources
- Reported 900+ data mismatches with Python and SPARQL by checking Wikidata's data against external sources
- Utilized RestAPIs to access individual data values to compare different numerical attributes
- Documented disparities between Wikidata and other sources to feed the Wikidata Mismatch Finder

Technical Skills

Languages: Java, Python, JavaScript, HTML, CSS, R, C, C++
Developer Tools: Git, Visual Studio Code, IntelliJ, Eclipse, NetBeans, React