Judy (He-Yun) Hsu

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EDUCATION

Honors Bachelor of Science- University of Toronto - GPA 4.0   Mississauga, ON
Computer Science Major, Business Minor— Dean's Scholar Award   *Sep. 2022 – Jun. 2026*

EXPERIENCE

Volunteer Web App Developer   May. 2024 - Present
STEM Canada   *Mississauga, ON*
- Anticipated role as a Volunteer Web App Developer with STEM Canada, contributing technical expertise to support the organization's mission of promoting STEM education nationwide.
- Expected to collaborate with a team of developers to design, develop, and implement innovative web applications aimed at enhancing learning experiences and accessibility within the STEM community.
- Proactively engaged in planning and executing strategies to leverage technology effectively, ensuring the seamless integration of web-based solutions to empower educators and students across Canada.

Marketing Intern   May. 2024 - Present
SkySuite   *New York, USA*
- Developed and executed highly targeted and persuasive email campaigns, driving a remarkable upsurge in sales conversion rates by up to 40 percent within a single quarter.
- Innovated and deployed dynamic segmentation strategies in email marketing campaigns, resulting in a surge in engagement metrics, including open rates by 60 percent and click-through rates by 45 percent.

Front Desk Sevice Intern   Jan. 2022 - Aug.2023
Eden Language School   *Taichung, Taiwan*
- Provided exceptional customer service by effectively communicating with clients, staff, and stakeholders to address inquiries and convey information.
- Managed weekly schedules and generated reports for the management department, ensuring efficient tracking of bookings and operational insights.
- Delivered personalized and efficient guest services, greeting visitors warmly and promptly addressing concerns to uphold the school's reputation for hospitality and professionalism.

Google Students Developer Club Internal Coordinator   Sep. 2022 - Sep.2023
University of Toronto   *Mississauga, ON*
- Spearheaded monthly general meetings, orchestrating seamless agendas and securing influential speakers to foster a dynamic learning environment.
- Revolutionized internal communication strategies, ensuring members were consistently informed about club activities, opportunities, and deadlines.
- Served as a pivotal liaison between club leadership and members, driving cohesion, engagement, and a strong sense of community within the organization.

PROJECTS

City Classification Machine Learning Model | *Python, Numpy, Sklearn, Matplotlib*   Mar. 2024 – Apr. 2024
- Implemented a cutting-edge KNN classifier with exceptional generalization capabilities, achieving an impressive 73 percent accuracy on unseen data sets.
- Leveraged Python's powerhouse libraries, including Numpy, Sklearn, and Matplotlib, to meticulously evaluate and fine-tune models such as decision trees and MLP.
- Employed advanced techniques in hyperparameter tuning to optimize model performance, showcasing a mastery of machine learning methodologies and Python programming prowess.

Game Server | *C, Linux, Bash*   Mar. 2024 – Apr. 2024
- Employed advanced socket programming techniques with C to establish communication between 10+ clients and the server, ensuring seamless interaction and real-time gameplay.
- Engineered a bespoke makefile system to streamline compilation processes across multiple files, enhancing scalability and adaptability while showcasing expertise in Linux and Bash environments.

Unix Shell Implementation – tsh (Tiny Shell) | *C, Linux, Bash*   Mar. 2024 – Mar. 2024
- Pioneered the development of tsh (Tiny Shell), a sophisticated Unix shell program meticulously engineered to deepen understanding of intricate Unix concepts such as process control, signals, and pipes.
- Implemented a comprehensive suite of features including program execution, job control, and input/output redirection, demonstrating mastery of C programming and Unix environment intricacies.
- Conducted exhaustive testing using a diverse array of trace files and shell driver tools, ensuring flawless behavior and compatibility with Unix standards.

Ecommerce Bookstore | *Java, Maven, Spring, Springboot, Angular, MySQL, Stripe API*   Jan. 2023 – Sep. 2023
- Architected and delivered a cutting-edge full-stack web application utilizing Maven, Spring, and Springboot to orchestrate a robust REST API, seamlessly integrated with Angular frontend for an unparalleled user experience.
- Leveraged MySQL database connectivity via REST APIs to provide dynamic and scalable data management solutions.
- Implemented secure credit card payment processing utilizing Stripe API, ensuring optimal transactional integrity and user trust.

Adventure - Graphic Game | *Java, JavaFX, GitHub Git*   Sep. 2023 - Dec.2023
- Developed an innovative Graphical User Interface (GUI) using Java and JavaFX, seamlessly blending Object-Oriented Programming (OOP) principles with advanced design patterns including Builder, Decorator, and Strategy patterns.
- Demonstrated mastery of software architecture by implementing Inversion of Control, Inheritance, Composition, Agile Team Development, and Polymorphism, ensuring a robust and scalable solution.
- Presented a captivating 10-minute group demo highlighting the game's extensive functionalities, demonstrating effective collaboration and agile development methodologies.

TECHNICAL SKILLS

Languages: Java, Python, C, SQL, JavaScript, HTML5, CSS
Frameworks: React, Node.js, Flask, Django, Angular, Maven, Spring, Rest
Developer Tools: Git, Github VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse
Libraries: pandas, NumPy, Matplotlib