Louis Yu

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EDUCATION

Columbia University   New York City, NY
Bachelor of Science in Computer Science, Minor in Entrepreneurship and Innovation   *Sept. 2023 – May 2027*

EXPERIENCE

Line Cook   May 2025 – Present
Asia Bistro and Seafood   *Montgomery, AL*
- Prepared and plated high-volume meals with consistent quality and attention to food safety and hygiene standards
- Collaborated with kitchen staff to optimize kitchen efficiency and decrease customer wait time
- Assisted with inventory management and restocking, minimizing waste and ensuring smooth kitchen operations during peak hours

CS Undergraduate Research Assistant   June 2024 – Sept 2024
Auburn University at Montgomery   *Montgomery, AL*
- Conducted research on tactile texture classification using data-driven techniques for assistive and robotic technologies.
- Optimized model accuracy through experimentation with signal lengths, snip counts, and probe configurations, demonstrating up to 98% classification accuracy using CNNs on 2-second tactile snips
- Co-authored the paper presented at IEEE SoutheastCon 2025, supported by NSF Grant 2435093

Waiter   Jan 2015 – Sept 2023
Asia Bistro and Seafood   *Montgomery, AL*
- Managed online presence and verified monthly statements, ensuring operational efficiency
- Delivered excellent customer service, multitasking in a high-pressure environment
- Secured over $100,000 in federal (PPP) and Alabama state COVID-19 relief funding to support small business operations during the pandemic

PROJECTS

Nomzi | *Python, React Native, MongoDB, FastAPI, Figma, Git, Expo Go*   March 2025 – March 2025
- Awarded Best in Nutrition Track at Columbia's Devfest 2025 for developing Nomzi, an AI-driven mobile app that promotes healthy eating through gamified meal tracking and social challenges
- Developed backend using Python and integrated Meta's LLAMA via Groq API to provide real-time food classification and personalized meal recommendations
- Implemented the frontend using React Native after designing the UI on Figma
- Used MongoDB to manage user profiles, food images, and meal data, ensuring fast and scalable data retrieval

TFT Assistant | *Python, Gemini API, Git*   May 2025 – Present
- Automated data pipeline scrapes and parses TFT champion, trait, and comp metadata into JSON
- Leverages Gemini API to dynamically answer player questions embedding live data into prompt context
- Designed the voice assistant loop to run as a background daemon thread alongside OCR-driven game-state monitoring, allowing shop detection and voice query handling without compromising performance

TECHNICAL SKILLS

Languages: Python, Java, C, SQL, XML
Frameworks: React, FastAPI
Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ
Libraries: pandas, NumPy, PyAutoGUI