JyunJhu(June) Syu

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Education

Purdue University   Jan. 2023 – Dec. 2024
Master of Science, Computer Science (GPA: 3.91/4.0)   *West Lafayette, Indiana*

National Taiwan University   Sept. 2015 – Jan. 2019
Bachelor of Science, Electrical Engineering (GPA: 3.98/4.0)   *Taipei, Taiwan*

Experience

Micron, Inc.   Jul. 2024 – Aug. 2024
Software Engineer Intern
- Created an interactive dashboard using **Angular** and **ASP.NET** Web API to efficiently troubleshoot and diagnose issues in the system by visualizing over 300 jobs with **Gantt** charts, reducing issue resolution time by **50%**.
- Designed and developed user-centric application features such as responsive zoom-in/out and chart export capabilities, ensuring high performance, interactivity, and a seamless user experience.
- Leveraged **Azure DevOps** in an **Agile** environment to develop, test, and deploy applications, incorporating CI/CD pipelines to streamline delivery and reduce manual intervention.
- Automated CI/CD maintenance tasks by writing **PowerShell** scripts to clean up archived files and unused branches, optimizing storage and ensuring a more efficient deployment pipeline.

MediaTek, Inc.   Oct. 2021 – Jan. 2023
Software Engineer
- Developed an AI app with **PyTorch** for chip designs, resulting in a **3X** improvement in floorplan generation efficiency.
- Automated the ML pipeline using **Bash** and **Python** scripts, enhancing workflow and integration within a team of 10.
- Built a website with **React** and **Ant Design** to significantly enhance user accessibility and optimize user experience.
- Refactored over 5 **Python** scripts to enhance usability and improve integration with the internal database system.
- Executed comprehensive data visualization, analysis, and interpretation using **Python**, leveraging libraries like **Pandas** and **Matplotlib** to uncover trends, patterns, and insights, enabling data-driven decision-making and strategic planning.

Projects

Recipe/Pantry Management App | *Python, Django, React Native*   May 2024
- Built a mobile app using **Django**, and **React Native**, with **PostgreSQL** for robust data management, featuring pantry management, recipe discovery, and an AI-powered cooking assistant.
- Integrated the **CLIP** visual language model, enabling users to effortlessly add food items into the system.
- Automated the tracking of user service history to calculate **10+** key business metrics.
- Utilized **Celery** to schedule the program to notify food expiry automatically.
- Deployed the application on **AWS EC2**, ensuring scalability and reliable cloud-based performance.

ChatBot App | *Python, Flask, React Native*   Nov. 2023
- Developed a mobile app featuring chatbot assistant, enhancing user experience with real-time interactions and support.
- Used **React Native** to create a user-friendly GUI that supports registration, sign-in, and conversation history, ensuring a seamless and personalized experience.
- Leveraged **Android Studio** to develop and preview the application for both iOS and Android platforms.

Question-and-Answer Forum | *GraphQL, MongoDB, React, NodeJS*   May 2021
- Developed a web-based Q&A platform with **React**, **GraphQL**, and **Node.js**, supporting a growing user base for open question and answer interactions.
- Implemented real-time message notifications for user post updates using **GraphQL** subscriptions.

Smart Ring | *Django, Arduino, Raspberry Pi*   Mar. 2021
- Built a doorbell system with **Raspberry Pi** and **Arduino**, integrating sensors, cameras, and notifications.
- Developed a full-stack website for monitoring door rings and controlling the door lock remotely, with real-time front door monitoring and anomaly detection features.

Technical Skills

Languages: Python, C++, C#, Java, HTML/CSS, JavaScript, SQL, C
Developer Tools: VS Code, Google Cloud Platform, Android Studio, GitHub, Azure DevOps
Technologies/Frameworks: .NET, Angular, React, Node.js, GraphQL, Django, Flask, MSSQL, PostgreSQL