

Shao-Ching (Jason) Huang

SENIOR UNDERGRADUATE, COMPUTER SCIENCE, NTU

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EDUCATION	National Taiwan University(NTU) , Taipei, Taiwan <i>Computer Science and Information Engineering</i> GPA: 4.13/4.3 (Overall) Coursework: Data Structure and Algorithm(A ⁺), Algorithm Design and Analysis(A), System Programming(A ⁺), Operating System(A ⁺), Machine Learning(A ⁺), Web Programming(A ⁺)	<i>Sep' 19 - Jun' 23 (Expected)</i>
INTERNSHIP EXPERIENCE	Eero, Amazon <i>Software Dev Engineer Intern</i> - Develop Python automation framework and testing environment for eero networking devices. AICS, ASUS <i>Software Engineer Intern</i> - Developed internal Kubernetes deployment pipeline with Azure DevOps. - Re-implement an existing open source tool, selenium-ide , for internal applications compatibility. HTC <i>Software Engineer Intern</i> - Developed helper tools to increase workflow efficiency with <i>Node.js</i> and <i>Python</i> . - Developed and maintained front-end structure of multiple websites.	Taipei, Taiwan <i>Sep '22 - Present</i> Taipei, Taiwan <i>Jun '22 - Aug '22</i> Taipei, Taiwan <i>Jun '21 - Aug '21</i>
RESEARCH PROJECTS	Lightweight Privacy-Preserved Speaker Recognition with Federated Learning <i>Supervisor : Prof. Hung-Yi Lee</i> - Aimed to propose a privacy preserving speaker recognition framework which can be deployed on real-world devices such as mobile phone. - Used federated learning to prevent the necessity of central server to access privacy-sensitive data. - Identified trade-offs between privacy protection and computation complexity, and proposed mitigation methods. Intersection Management with Reinforcement Learning <i>Supervisor : Prof. Chung-Wei Lin</i> - A graph-based model, Timing Conflict Graph, is used to simulate real-world intersections. - Applied PPO learning framework on scheduling problems of intersection management to achieve deadlock-free scheduling policy with performance improvements.	<i>Jul '22 - Present</i> <i>Feb '22 - Present</i>
COURSE PROJECTS	Approaches and Analysis on Chinese Zhu-Yin Decoding <i>Course : Digital Signal Processing</i> - Implement and compare the performance of the traditional HMM model and the modern BERT model on the Chinese Zhu-Yin decoding task. - Plan to deploy public Zhu-Yin-Wen(注音文) translation service in the future.	
TECHNICAL SKILLS	Programming Languages: C/C++, Python, TypeScript/JavaScript, HTML/CSS Web Development: NodeJS, ReactJS, Django AI/ML: PyTorch, Tensorflow DevOps: Asure, Docker, Kubernetes Others: Git, MongoDB, PostgreSQL	