

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> <ul style="list-style-type: none">- Develop and maintain internal automation framework and testing environment for eero products.- Identify and fix issues in eeroOS firmware. AICS, ASUS <i>Software Engineer Intern</i> <ul style="list-style-type: none">- 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>	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	Intersection Management with Reinforcement Learning <i>Supervisor : Prof. Chung-Wei Lin</i> <ul style="list-style-type: none">- Applied PPO learning framework on scheduling problems of intersection management to achieve deadlock-free scheduling policy with performance improvements- Our paper "Reinforcement-Learning-Based Job-Shop Scheduling for Intelligent Intersection Management" is accepted by Design, Automation and Test in Europe Conference (DATE) 2023 Lightweight Privacy-Preserved Speaker Recognition with Federated Learning <i>Supervisor : Prof. Hung-Yi Lee</i> <ul style="list-style-type: none">- 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.	<i>Feb '22 - Present</i> <i>Jul '22 - Present</i>
COURSE PROJECTS	Approaches and Analysis on Chinese Zhu-Yin Decoding <i>Course : Digital Signal Processing</i> <ul style="list-style-type: none">- 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, MongoDB, PostgreSQL AI/ML: NLP, RL, Machine Learning Frameworks(PyTorch, Tensorflow) DevOps: Azure, Docker, Kubernetes Security: Cryptography, Network Security(SSL/TLS, IPsec)	