Yu-Hsuan (Ashley) Lu

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EDUCATION	
University of Southern California	Los Angeles, United States
Master of Science in Computer Science	2021 - 2023
• 2021 Coursework: Algorithms, Programming Systems Design, Web Technologies, Art	tificial Intelligence
Earned admission scholarship from USC Viterbi School of Engineering	
National Taiwan University	Taipei, Taiwan
Information System Training Program (continuing education)	2019
• Coursework: Securities Trading Analysis with Python; Problem Solving with Python;	; Java Programming
National Taipei University of Technology	Taipei, Taiwan
Bachelor of Science in Industrial Engineering and Management	2014 - 2018
• GPA: 3.7 / 4.0; Earned Presidential Award (top 5% of class in spring 2017, fall 2018),	, 100% exchange student
funding via Taiwan Ministry of Education Scholarship	
Relevant Coursework: Programming Language, Cloud-based Computing and Applic	
Design, Database Management, Automation Concept, Introduction of VR/AR in Workplace and its Design	
WORK EXPERIENCE	
Wistron Corporation (one of the largest ODM firms)	New Taipei, Taiwan
Software Engineer, OS and I/O Devices	2019.8 - 2021.5
• Work with OS and device driver vendors in Taiwan, China, Israel and other global off	ices to develop, debug and
handle system software issues by analyzing dump files and using C language to change	e configuration settings for
major notebook manufacturing clients, such as Lenovo	
• Optimized Excel VBA tool that facilitates daily tracking of bugs from databases and m	nakes it easier to cross-analyze
bugs among different products	
TopOne Information (a start-up ERP system developer)	Taichung, Taiwan
Software Developer, ERP System	2018.7 - 2019.7
• Utilized ASP.Net and MySQL to support Cloud-based Enterprise Resource Planning (ERP) system development
UI/UX Improvement – Worked with UI/UX designers to redesign and improve user ex	sperience for Web-based ERP
systems by unifying the buttons, layout and UI flow across each function	
• Reports Creation - Retrieved data and created clear and effective reports, including qu	otes, customer orders, stock
tracking, BOM lists, etc. for client needs in different industries	
TBI Motion Technology (a producer of linear motion products)	New Taipei, Taiwan
Industrial Engineer Intern	2017.7 - 2017.8
Led a team of 4 TBI Motion interns to establish relational databases to interpret factor	
failure rate; proposed new manufacturing process flow that was predicted to reduce the	e failure rate by 13% and
increase workforce utilization by 4% based on arena simulation software	
• Used heuristic algorithms and Python to analyze production scheduling for the manuf	acturing of automatic tools
Research Experience	
Multiple-Criteria Decision Analysis	2017.2 - 2018.2
• Utilized data mining with Python to identify and analyze pertinent risk factors in critic	al infrastructure
• Conducted data analysis based on survey results from professionals, and proposed an i	

- Conducted data analysis based on survey results from professionals, and proposed an integrated risk-assessment model to address the subjectivity and uncertainty in data
- Won Taiwan National Science Council Research Scholarship, and represented Taipei Tech to present the research in 2017 Capstone Design Presentation at Seoul National University of Science and Technology

2017.7 - 2017.12

Smart Manufacturing Program

- Took part in academia-industry collaboration to guide smart manufacturing with TBI Motion Technology Inc. and Mechanical and Electrical Engineering interns
- Deployed single stream production scheduling with Python and MATLAB analysis techniques to visualize and analyze data from Internet of Things (IOT) sensors, cloud, and manufacturing execution system (MES)

SKILLS, ACTIVITIES & INTERESTS

Area of Interests: Distributed Systems, Web Services, Cloud Service, Agile Development, DevOps Skills: Python, Java, SQL, MySQL, ASP.NET, JavaScript, JQuery, Bootstrap, HTML, CSS, Node.js, C++ Activities: Taiwan Ministry of Education International Volunteer Program, Student Ambassador, Student buddy club