BOR-SHENG (ERIC) HUANG

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EDUCATION

University of Southern California (USC)

Los Angeles, CA

Master of Science in Computer Science

August 2022-December 2024

Highlighted Courses: Web Technologies, Analysis of Algorithms, Machine Learning for Data Science, Database Systems

National Cheng Kung University (NCKU)

Tainan, Taiwan

Bachelor of Science in Electrical Engineering

September 2017-June 2021

 Highlighted Courses: Computer Algorithm, Operating System, Data Structures, Algorithms and Applications to IT and Artificial Intelligence, Image Processing, Fundaments of Data Analysis

WORK EXPERIENCE

HighPoint Technologies, Inc.

Fremont, California

May 2024-August 2024

Software Engineer Intern

Enhanced customer engagement and data collection by coding new features in JavaScript on the HighPoint website using Wix

Participated in the Future of Memory and Storage (FMS 2024) and fielding questions from industry professionals.

Taiwan Semiconductor Manufacturing Company (TSMC)

Hsinchu, Taiwan

Software Engineer Intern

July 2023-August 2023

- Developed a Config Center Platform for TSMC manufacturing engineers to easily query or update different configurations in the Wafer Fabrication Process, streamlining user experiences and resulting in a 50% time reduction for engineers
- Designed system by Domain-Driven Design (DDD). Crafted a responsive frontend using Angular, enhanced with PrimeNG and Ag-Grid libraries, and a high-performance backend utilizing FastAPI and Python
- Leveraged Azure pipelines for automated build, test, and deployment workflows

Advanced Computer Vision Lab (ACVLAB), National Cheng Kung University

Research Assistant

March 2021-December 2021

- Devised deformable convolutional semantic segmentation neural network for autonomous vehicles on scene understanding
- Constructed automatic digit recognition by reforming Yolo-v5 and Resnet OCR

ACADEMIC PROJECTS

"Yelp Business Search App on IOS" (Front-End: Swift/ Back-End: Node.js)

August 2022-December 2022

https://youtu.be/nXVQoC_pkLc (Specific description is right below video)

"Yelp Business Search Website on GCP" (Front-End: Angular/ Back-End: Node.js)

August 2022-December 2022

https://youtu.be/LQI pRFscUU (Specific description is right below video)

"Developing Automatic Digit Recognition and Processing Improvement"

March 2021-December 2021

Industry-Academia Collaboration Project, Advanced Computer Vision Lab (ACVLAB) at NCKU

 Managed the project and led company to perform field type identification and automatic text recognition of invoices and bills by reforming Yolo-v5 and deep-text-recognition-benchmark; improved accuracy to 97.72%

"Conducted AI to Predict and Analyze Outcomes of Sexual Assault Cases Based on Evidence"

Mar. 2021-Sep. 2021

- Applied Machine Learning Classifiers and Deep Learning (LSTM, BERT) to develop an Al-predicting system
- Constructed a chatbot to help victims substantially; presented results at the Legal-Tech Hackathon

AWARDS

Outdoor Semantic Segmentation Challenge (DAGM GCPR 2021), 1st Place Award

September 2021

Designed an innovative deep neural network on scene understanding in unstructured environments for autonomous vehicles

PUBLICATIONS

Bor-Sheng Huang (First Author), Chih-Chung Hsu, Wo-Ting Liao, Xian-Yun Wang, Han-Yi Kao

"Deformable Convolutional Semantic Segmentation Neural Network for Non-Rigid Scenes"

2022 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), April 2022

https://ieeexplore.ieee.org/document/9747586

LEADERSHIP

Captain

September 2018-June 2019

Baseball Team of NCKU Electrical Engineering Department

SKILLS

Software Application: Angular, NodeJS, Ajax, Swift, Python, C/C++, GCP, AWS, Azure, JavaScript, Java, HTML, CSS, Docker, Markdown