Chuan-Che (Eric) Lin

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EDUCATION

University of Illinois Urbana-Champaign (UIUC), IL, USA   Expected June 2025
  Master of Science in Information Management

National Taiwan University (NTU), Taipei, Taiwan   June 2022

  Bachelor of Science in Biomechatronics Engineering: GPA: 3.84/4.3
    Awards: Dean's List Award for Top 5% of Students/Best Paper Award in 2020/2021
    Conference on Biomechatronics and Agricultural Machinery Engineering
    Scholarship: 2022 CTCI Foundation Science and Technology Scholarship (≈5000 USD)
    Relevant Coursework: Practical Data Structures and Algorithms, Machine Learning,
    Engineering Mathematics, Computer Programming Language

SKILLS

Programming Languages: Python, Shell Scripting, SQL, Java, JavaScript, HTML, CSS, C++/C#
Development Tools and Frameworks: PyTorch, OpenCV, LangChain, Pinecone, Docker, Git, Postman
Web Development and Deployment: Django, Next.js, Express.js, React.js, Node.js, Heroku
Database and Data Storage: MySQL, MongoDB

WORK & RESEARCH EXPERIENCE

Bosmos LLC, GA, USA (Remote)
Software Engineer Next.js/Express.js/React.js/Node.js/MySQL/JavaScript/Docker   Sept. 2023 – Present
- Developed a leaderboard for designers to compete for rewards using Next.js and Express.js.
- Designed a MySQL database for efficient participant information management.

Raven Digital Corporation, CA, USA (Remote)
Natural Language Processing (NLP) Engineering Intern LangChain/Pinecone/MongoDB Sept. 2023 – Present
- Developed the pipeline for conversational AI to generate outfit suggestions using LangChain.
- Implemented the efficient and scalable vector similarity search using Pinecone.

National Taiwan University, Taipei, Taiwan
Research Project Lead PyTorch/Shell Scripting/Docker   July 2021 – Jan. 2023
- Implemented efficient novel class expansion by employing few-shot object detection methods.
- Led a team of three in containerizing the system for enhanced maintainability.
- Mentored incoming lab members through training courses in object detection.

Undergraduate Research Assistant Django/MySQL/Heroku/Postman/HTML/CSS   July 2020 – July 2021
- Developed an identification model with a mean average precision of 76.6% using Faster R-CNN.
- Established an instant-message bot to provide real-time identification services. (100+ Users)
- Constructed an anomaly detection model as a preliminary step, achieving a F1-score of 96.2%.

Teaching Assistant OpenCV/PyTorch/scikit-learn/NumPy/Matplotlib   Oct. 2022 – Dec. 2022
- Delivered image processing and machine learning courses for international graduate students.
- Assisted students in applying image processing techniques to count bacterial colonies.

RELEVANT PROJECTS

Chinese Extractive Question Answering NLP/Transformers
- Fine-tuned pretrained Chinese BERT model on downstream NLP task using transformers.

Anime Face Generation PyTorch/torchvision
- Built a Generative Adversarial Network (GAN) for anime face generation.

PUBLICATIONS

- **Lin, C. C.**, Lin, S. R., & Chen, S. F. (2022). Implementation of Few-shot Object Detection Methods on Tea Diseases Identification. In *2022 International Conference on Advanced Robotics and Intelligent Systems (ARIS)*.
- Chen, X. M., **Lin, C. C.**, Lin, S. R., & Chen, S. F. (2021). Application of region-based convolution neural network on tea diseases and harming insects identification. In *2021 ASABE Annual International Virtual Meeting* (p. 1). American Society of Agricultural and Biological Engineers.
- *Conference on Biomechatronics and Agricultural Machinery Engineering* (2021/2022 1st author, 2020 2nd author)