Leo Chen

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EDUCATION

Purdue University, *West Lafayette, Indiana* — **Aug 2021 – December 2024**
Bachelor of Science in Computer Engineering — GPA: 3.5/4.0
Relevant Coursework: Artificial Intelligence, Remote Sensing, Software Engineering, OOP C++, Data Structures, Compilers, Optimization

EXPERIENCE

IEEE X Purdue Low Power Computer Vision Challenge (Seris/Cam2) — **May 2023 – May 2024**
Research Co-Team Leader
- Served as **lead author** for the **research paper** "2023 Low Power Computer Vision Challenge (LPCVC) Summary", available at: https://arxiv.org/abs/2403.07153.
- Managed web server via GitHub CI/CD, connected to Jetson Nano over ethernet-exclusive ssh for the execution of model evaluations available at: https://lpcv.ai.
- Hosted an online competition focused on optimizing computer vision segmentation models for edge devices, attracting 117 participants, yielding 475 valid submissions.
- Created an automatic evaluation system measuring inference time via standardized output, leveraging CUDA.

Acuinas — **Jun. 2021 – Aug. 2021**
R&D Software intern
- Employed **XGBoost** AI model to forecast the likelihood of musical success, providing actionable insights for musicians and aiding investors in identifying upcomers.
- Coordinated with a diverse team of 13 specialized interns via weekly standups and Slack.
- Curated and refined datasets sourced from online databases, filtering to ensure integrity of collected data.

UnityisStrength — **Jul. 2024 – Aug. 2024**
Website designer
- Redesigned header/footer and added/redesigned multiple pages. https://unityisstrength.io/
- Implemented appointment system considering planned breaks, vacations, and working hours.
- Added Donor Advised Fund Widget to simplify donation process.

John W. Hick's Undergraduate Library — **Sep. 2022 – Dec. 2024**
Librarian
- Organized books according to Library of Congress and Dewey Decimal System.
- Assisted visitors with books, materials, and any possible questions.

PROJECTS

Basketball Form Analysis Web App:
- Built full stack system that accepts videos and returns a form analysis video.
- Utilized S3 to accept video then return animated pose video with Lambda function.
- Developed in Docker and deployed using AWS CDK to ECR, Lambda, and S3.
- Built frontend with Typescript, ReactJS, and GitHub Pages.

Trustworthy Module Registry:
- Lead development of portable Dart-based CLI executable for evaluating NPM modules based on trustworthiness.
- Fulfilled OpenAI spec, creating UI hosted on GitHub Pages, included CI/CD, AWS Lambda backend, DynamoDB for object storage, and S3 for file storage.
- Managed GitHub Organization, setting permissions for specified branches and individuals.

Skills

- Programming Languages: Python, C/C++, JavaScript/TypeScript, Dart, Matlab
- Fluent Languages: English, Chinese