

# Leo Chen

leochenkmts@gmail.com ❖ linkedin.com/in/leo-chen-9476bb21a ❖ github.com/LeoChen21

---

## 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.

**Acuinias**

**Jun. 2021 – Aug. 2021**

*Re&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 taking into account planned breaks, vacations, and working hours
- Added Donor Advised Fund Widget to simplify donation process.

## PROJECTS

---

**Basketball Form Analysis App:**

- Developing specialized yolov8 CV model for exclusively tracking humans, basketballs, and hoops.
- Utilized ec2 cloud computing instance with GPU to accept video then return animated pose video.
- Collected and combined data from multiple videos or multiple shots in one video.
- Managed input and output system of android app developed via flutter.

**Trustworthy Module Registry:**

- Lead development of portable Dart-based CLI executable for evaluating NPM modules based on trustworthiness via NPM or GitHub URLs.
- Created UI hosted on GitHub Pages with CI/CD, AWS Lambda backend and S3 for data storage.
- Utilized OpenAI API to curate suggestions based on user input, GitHub/NPM API for measurement.
- Managed GitHub Organization, setting permissions for specified branches and individuals.

**Unreal Engine Simulation:**

- Lead development of Unreal Engine AI NPC simulated movement through various landscapes.
- Pioneered heatmap system to collect and output data of NPC movement.
- Handled multi-story navigation mesh.

## Skills

---

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