

# WEN JIE LEE

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## Education:

### University of Wisconsin-Madison

3.71 GPA

Computer Science, B.S.

Anticipated graduation: December 2024

Relevant courses: Big Data Systems, Algorithms, Machine Organization and Programming, Programming II & III, C++ Programming, Matrix and Linear Algebra

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## Skills:

- Java, Python, C, C++, HTML, CSS, JavaScript
- React.js, Express.js, Node.js, Spring Boot, Docker, PyTorch, MySQL, MapReduce, Spark, Cassandra, BigQuery, Kafka, MongoDB, Git

## Projects:

### CanT-cer – [Github](#)

- Developed a web app to address the need for synthetic medical datasets of diverse skin tones in cancer diagnosis. Utilized Flask and Google Colab to deploy custom AI model pipelines for skin lesion classification, segmentation, and style transfer.
- Streamlined an Express RESTful API architecture to facilitate data transmission. Implemented server-sided image encoding, file bundling and compression, enabling efficient exports of generated datasets in .ZIP format. Integrated server responses into a React and Bootstrap UI. Deployed web service on Google Cloud App Engine.
- Awarded Best use of Google Cloud by Major League Hacking (MLH) in MadHacks Fall 2023.

### Cornucopia – [Github](#)

- Built a web app employing React and Next.js to unite small-scale farmers through a Community Supported Agriculture (CSA), growing and selling produce locally to clients through an intuitive Tailwind UI. Trained a lasso regression model to recommend optimal crop prices. Utilized MongoDB Atlas for crop inventory and delivery logistics.
- Team members were unfamiliar with web development. Bolstered parallel development under time constraints by implementing skeletal React component hierarchies and maintaining dynamic state allocations. Leveraged Leaflet API to render an interactive map facilitating efficient delivery logistics.
- Achieved Best Agricultural Innovation Award by John Deere in HACKUIOWA 2023.

### Paper++ – [Github](#)

- Leveraged Google Cloud Vision API to parse handwritten code from images into compiled and executable programs. Capable of handling user programs with static dependencies through a remote code execution system. This project aspires to accelerate grading of paper-based code interviews and examinations.
- Implemented Java backend handling automatic, thread-synced compilation and execution of user's program during runtime, piping program outputs into a react-based UI. Placed in top 5 of final teams out of 58 projects in MadHacks 2023.

### College Database – [Github](#)

- Engineered a Red-Black Tree for stable and efficient insertion, lookup and deletion operations.
- Enhanced the database with the ability to perform dynamic lookups based on various data fields using Java Reflection, including rankings, student populations, and academic programs.

## Achievements and Activities:

Udemy Web Developer Bootcamp | Colt Steele (2023)

President of IICS American University Program (AUP) Society (2021-2022)

Vice President of Information Technology Club (2018-2019)

Divisional Chairman of St John Ambulance Malaysia (2017-2019)