Wen Jie Lee

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EDUCATION

University of Wisconsin-Madison Madison, WI
Computer Science, B.S. *Anticipated Graduation: December 2024 | 3.80 GPA*
- Operating Systems, Big Data Systems, Database Management Systems, Algorithms, User Interfaces, Data Structures, Matrix and Linear Algebra

EXPERIENCE

Undergraduate Research Assistant Jan 2024 – Present
People and Robots Lab *University of Wisconsin Madison*
- Developed interfaces for Human-Robot/Computer Interactions using React Three Fiber, Three.js, C++ & Python
- Automated .GLB file conversion pipelines for integration with in-house robot simulation API
- Implemented text-to-speech capabilities within Robot Operating Systems (ROS) via Ursula.ai and C++, enriching user experience by fine-tuning personas

Full-Stack Web Developer Intern Nov 2023 – Present
The Crossing, Inc *Madison, WI*
- Collaborated with clients to design and implement UI/UX principles using HTML, JavaScript and CSS
- Executed migration from Squarespace to flexible Content Management System (CMS) platforms
- Developed CMS API integrations to enhance infrastructure functionality, including payment processing, event management and reservations, boosting **web traffic by 128% with over 1.1K page views/month**

PROJECTS

CanT-cer | Github | *Flask, Express, React, Bootstrap, Cassandra, Google Cloud App Engine* Oct 2023 – Present
- Deployed a React web application combating AI bias in skin cancer data generation on Google Cloud Platform.
- Utilized Flask & Google Colab for AI model pipelines on skin lesion classification, segmentation & style transfer
- Streamlined Express RESTful API architecture to facilitate stateless server-sided image encoding, file bundling & compression, enabling efficient exports of generated datasets in .ZIP format from files hosted in Cassandra
- Awarded **Best use of Google Cloud by Major League Hacking (MLH)** in MadHacks Fall 2023

Cornucopia | Github | *React, JavaScript, Next.js, Tailwind.css, Leaflet* Sept 2023 – Oct 2023
- Employed React, Tailwind and Next.js to unite small scale farmers via a Community Supported Agriculture (CSA)
- Leveraged Leaflet API to render an interactive map facilitating efficient delivery logistics.
- Spearheaded parallel development under time constraints by implementing skeletal React component hierarchies and overseeing dynamic state allocations for team members who were new to web development
- Achieved **Best Agricultural Innovation Award by John Deere** in HACKUIOWA 2023

Paper++ | Github | *React, JavaScript, Java, Google Cloud Vision* Jan 2023
- Leveraged Google Cloud Vision API to parse handwritten code from images into compiled and executable programs with static dependencies through a remote code execution system
- Utilized Java Reflection to handle thread-synced compilation of user's program during runtime
- Placed in **Top 5 of final teams out of 58 projects** in MadHacks Spring 2023

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS
Frameworks: React, React Three Fiber, Three.js, Express, Flask, Springboot, JUnit, WordPress, Squarespace
Tools: MongoDB, Cassandra, Kafka, Big Query, PyTorch, SQLite, MySQL, MapReduce, Spark, Docker, Google Cloud Platform, Git, ROS

ACHIEVEMENTS

Udemy Web Developer Bootcamp (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)