LILY (JIAYU) LI

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EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

COMPUTER SCIENCE (BS) MINOR IN BUSINESS

Expected Graduation: May 2022
Overall GPA: 3.81
James Scholar

EXPERIENCE

LinkedIn Corporation

SOFTWARE ENGINEERING INTERN May 2021 – Aug 2021

+ Worked on LinkedIn's flagship Android application in the Search & Discovery's UX – Blended Search Team

Brunswick Corporation

SOFTWARE ENGINEERING INTERN Feb 2020 – May 2021

+ **Web App** (**PHP**, **Laravel**, **SQL**): created an internal website to automate job changes within Brunswick manufacturing plants. Allows workers to bid for new jobs/shifts within the corporation and automatically generate bid winners using an algorithm that gives preferences to certain workers with given conditions set by HR
+ **Web App** (**HTML5/CSS**, **JavaScript**, **Three.JS**, **WebGL**): renders 3D boat models for Brunswick's subsidiaries, allowing users to interact with the model: see 360° view of different boats, try different add-on options, and experience the boat from different points of view
+ **Full-Stack** (**MERN Stack**: MongoDB, Express, ReactJS, Node.js; **RESTful APIs**): created "build-your-boat" **iframe** for SeaRay's boat release to increase customer engagement
+ **Front-End**: created outward-facing website for i-Jet Lab using **ReactJS** to engage viewers
+ **iOS** (**Swift**): created a client-side application for Whale's pioneer Livewell system with user-friendly & intuitive UI/UX for remote control of **IoT** devices via **BLE**; facilitated project communications between teams
+ **Android** (**Java**): created **Google Glass** application for Boston Whale's manufacturing plants; allows workers to view real-time performance data and remotely access main server via **BLE**; aims to increase workflow efficiency and productivity; currently in use by several manufacturers in Florida; acted as **project manager**
+ **Robotics** (**ROS/OpenCV**): created pipelines for panoramic **image stitching**, joystick control of robot via **CAN messaging protocol** and **Bluetooth**

RESEARCH

Machine Learning to Detect Fertilizer Adulteration

UNDERGRADUATE RESEARCH ASSISTANT Sep 2019 – December 2020

+ Conducted research with Professor Hope Michelson on the applications of machine learning
+ Problem statement: detect images of adulterated fertilizer to aid farmers in Sub-Saharan Africa
+ Created image recognition machine learning model (**CNN**), achieving ~90% prediction accuracy
+ Designed UI/UX of mobile application, constructed database (**Firebase**) architecture
+ Led group of students in developing **Android** application; embedded ML model (**Tensorflow Lite**) into mobile app; currently being tested by Tanzanian farmers and government regulators

SKILLS

PROGRAMMING LANGUAGES

C/C++, HTML/CSS, Java, JavaScript, PHP, Python, R, Swift, Verilog

TECHNOLOGIES/APIS/FRAMEWORKS

Arduino, Bash, Git, Google Firebase, Google Glass, Laravel, Machine Learning (TensorFlow, Keras, MobileNet), Microsoft Azure, MongoDB, NodeJS, NVIDIA Xavier, Raspberry Pi, ReactJS, SQL, Three.js, WebGL

SOFT SKILLS

Agile (Scrum), DevOps, Project Management, UI/UX Design, User-Centered Design Thinking

LANGUAGES

English (native), Mandarin Chinese (fluent)