CURTIS CASADOS

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EDUCATION

Master of Science - Computer Science   Los Angeles, CA
    University of Southern California (USC)   May 2022
Bachelor of Science - Mechanical Engineering   Salt Lake City, UT
Minor in Computer Science   June 2020
    University of Utah

TECHNICAL SKILLS

TypeScript	Next.js	Python	Express	Supabase	HTML	C/C++
React	Gatsby	JavaScript	GraphQL	Ethers	CSS	Swift
Node.js	SQL	Git/GitHub	Flask	Solidity	Angular	Java

EXPERIENCE

Software Engineer - Co-Founder & CTO, *MedPath App, Phoenix, AZ*   Mar 2023-Present
- Founding and architecting a high-performance, responsive web application using Next.js, Supabase, and Tailwind CSS to streamline academic task management for medical students
- Meticulously engineering software infrastructure with robust features, integrating a backend with Postgres, SQL, and Supabase for optimal data integrity, and utilizing CI/CD methodologies for seamless deployments on Vercel and GitHub
- Consistently achieving and maintaining Google Lighthouse and Vercel Speed Insight scores in the 90s

Software Engineer, *BotShop LLC, Remote*   Mar 2022-Mar 2023
- Utilized Node.js, MySQL and CCXT to algorithmically execute cryptocurrency trades based on advanced machine learning models that demonstrated up to 90% accuracy predicting net positive trade value
- Spearheaded the development of a full-stack skills-based Solidity smart contract assessment for new-hire recruitment
- Designed and established NestJS backend to store token data in JSON format for frontend retrieval using IPFS

Full Stack Software Engineer Internship - Team Lead, *Machine Analytics, Los Angeles, CA*   Aug 2021-Dec 2021
- Utilized React, AWS and GitHub to develop a web application and collaborated with the Backend, 3D Modeling and Internet of Things departments to ensure seamless code integration and app deployment
- Managed all committed and pushed code to GitHub and adopted best practices to introduce CI/CD methodologies while working with AWS Amplify

Frontend Software Engineer Internship, *Tipsy Bartender Inc., Los Angeles, CA*   Apr 2021-Aug 2021
- Optimized a large-scale, high performance, statically generated website that has 12 million views per month using Gatsby, GraphQL, Tailwind CSS, Node.js and Figma
- Utilized Gatsby to enhance the SEO functionality, increase scalability and decrease page load times by 100%

PROJECTS

Machine Learning Nephritis Decision Tree - Backend, *Los Angeles, CA*   Jan 2022- May 2022
- Created a supervised learning decision tree for nephritis using Python, scikit-learn and pandas libraries
- Optimized the decision tree accuracy and interpretability using cost-complexity pruning

Donate-A-Coffee Blockchain Web Application - Full Stack, *Remote*   Jan 2022-Feb 2022
- Developed a full stack cryptocurrency web application by using Solidity Smart Contracts and leveraging Hardhat, Ethers, Mocha and Chai packages

Blockchain Trading Bot - Backend, *Remote*   Sep 2021-Nov 2021
- Utilized Node.js, Puppeteer and web3.js to build a cryptocurrency trading bot
- Employed a delta-neutral trading strategy bot to optimize position in liquidity pools

Autonomous Vertical Garden - Robotics, *Los Angeles, CA*   Aug 2021-Dec 2021
- Utilized Arduino, embedded systems, microcontrollers, sensors and peristaltic pumps to autonomously monitor and adjust solute and pH levels of a self-made hydroponic vertical garden for optimal plant growth

USC Films Database Website and iOS App - Full Stack, *Los Angeles, CA*   Jan 2021-May 2021
- Developed and implemented a responsive web application for a movie database by using Angular, Bootstrap, Node.js and Express to obtain and display movie data from a REST API
- Constructed an iOS application that complemented the style and functionality of the Movie Database web application by utilizing Swift and the existing Express backend

LEADERSHIP

Co-Founder & CTO MedPath App, *Co-Founder, Phoenix AZ*   Mar 2023-Present
Undergraduate Student Leadership Committee, *Co-chair, University of Utah*   Aug 2017-Jun 2020
Society of Hispanic Professional Engineers, *President, University of Utah*   Jan 2017-Dec 2017