Kyle Jeffrey

Let's Talk

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Education

B.S Robotics Engineering
UC Santa Cruz

Skills: Python, NodeJs, JavaScript, TypeScript, React, React Native, NextJS, Redux, Expo, Numpy, Matplotlib, MongoDB, MySQL, Docker, Unix, Linux, Git, VSCode, C, C++, AWS, Serverless, SAM, AWS CDK, Gitlab CI/CD

Professional Experience

Stout Industrial Technology, Salinas, CA
Senior Software Engineer *Oct. 2023 – Present*

- Full Stack Lead engineer on React/Python Fast API web app using AWS services.

Software Engineer *Jan. 2023 – Oct. 2023*

- Lead React Native app developer. Developed full CI/CD pipeline on Gitlab using Expo and Expo Application Service for automatic code updates and deployments to Android and Apple app stores.
- Lead React web app full stack engineer, using python FastAPI backend and MongoDB database.

Everyday Robots (Google X), Mountain View, CA
Python Developer - Contractor *Nov. 2021 – January 2023*

- Built a multi-agent machine-learning robot API to contribute to the overall value by expanding the interaction suite of the robots and shared with investors, stakeholders, founders and C-Suite
- Developed Human-Robot Interaction(HRI) applications by writing a movement generated music application using Android stack and Java to increase comfortability with the robots by 33% while performing their ordinary tasks for over 200 robots. The feature has been coupled with choreography for media showings and investor meetings.
- Collaborated with 3 teams across Google to collect data, generate SSOTs, and validate mobility and computer vision policies on robots for machine learning projects, contributing to the publication *"Gesture2Path: Imitation Learning for Gesture-aware Navigation(2022)"*

FS Studio (Google Brain), Mountain View, CA
Teleoperations Tactician *May 2021 – Nov 2021*

- Collected, cleaned data, and conducted evaluations(e.g., biases, limitations) for ml models.
- Developed UI/UX CLI for data collection tasks, improving collection rates by at least 30%.
- Created documentation and data tracking websites to review data collected, coauthoring the publication *"Do As I Can, Not As I Say: Grounding Language in Robotic Affordances(2022)"*

Yekta Sonics, Santa Cruz, CA
Hardware Engineer Intern *Jan 2019 – Nov 2019*

- Built and tested PCB boards for beam former.
- Created test harnesses to validate operation of IC chips.

AgTech, Santa Cruz, CA
Technology Consultant *Jan 2019– Nov 2019*

- Stood as head of hardware and software management for support of on campus project to bring ml models to agriculture to aid in understanding crop health.

Independent Projects

Senior Robotics Thesis - *Implementing Millipede Locomotion with simple cam designed actuators*

- Imitated locomotion of Millipede legs by designing a cam system in fusion 360 to create desired trajectory. Project included simulation with Matlab Simulink, writeup with LateX, 3D printing, test harness with sensors and arduino, as well as some use of After Effects for trajectory analysis with footage.