

Kenny Huynh

EXPERIENCE

ReJoule, Inc. Garden Grove, CA – DevOps Engineer

Mar 2019 – Present

- Supported team of 4 engineers with multi-disciplinary background by streamlining development environment setup and configuration
- Developed internal tooling to facilitate data flow and ingestion between embedded hardware systems and data analysis team
- Developed and maintained internal python package/repository used in battery analysis/modeling by team of data scientists
- Set up continuous integration (CI) and continuous deployment (CD) pipelines for various software packages to automate testing, deployment, and dependency management using docker
- Orchestrated configuration management across multiple integrated hardware/software solutions using ansible and various bash/python/cron scripts

ReJoule, Inc. Garden Grove, CA – Embedded Systems Engineer

Aug 2017– Mar 2019

- Developed hardware, firmware, and software for a custom low-cost and energy efficient battery testing platform (BTP) for real-time data collection and cycling of high capacity, high power automotive grade batteries and 18650 battery cells
- Contributed to firmware and software development of ReJoule Modular Platform (RMP) to perform electrochemical impedance spectroscopy (EIS) on a battery pack of up to 16 cells in series
- Develop battery models to more accurately gauge battery state-of-charge (SOC) and state-of-health (SOH)
- Directly worked on research and proposal for NSF SBIR/STTR (*Phase I grant awarded of Jan 2019*)

PROJECTS

PC Counter

A react application developed for a small local PC gaming café for pc management. It tracks the seat number as well as the time and snacks consumed by customers. Launched in Jan 2018 and actively maintained.

- Initial revision was React/MongoDB with meteor web app
- v2 refactor moved to React/SQLite electron application
- Python data analysis suite for ETL from database to analyze peak times, most popular computer, customer insights

CONTACT ME



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CORE COMPETENCIES

Teamwork

- Working in cross-disciplinary teams
- Collaboration in development
- Concise and clear documentation

Software

- Proficient Languages: C, Python, Javascript, HTML/CSS, NodeJS
- Hobby Languages: Rust, Go
- DevOps: Docker, Ansible
- Cloud: AWS/GCP/Digital Ocean
- Databases: SQLite, PostgreSQL, MongoDB
- Operating Systems: Mac OS, Ubuntu, Raspbian, Windows

Frameworks

- UI: React, PyQt, Electron
- API Development: FastAPI, Flask, Django, ExpressJS
- Machine Learning: Tensorflow, Pytorch, SKLearn
- Documentation: MKDocs, Sphynx
- Game: SDL2

Hardware

- Reading datasheets
- Schematic design, PCB layout (KICAD)
- Circuit simulation (LTSpice)
- Platforms: PIC32, ESP32, Arduino, Teensy, Raspberry Pi
- Hardware Debugging (Oscilloscope, multimeter, power supplies)

EDUCATION

University of California, Irvine

Jun 2017

B.S. Electrical Engineering