DAVID O'NEILL

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PORTFOLIO EXAMPLES

Kit Inventory Manager • GitHub

Summary: An API to manage kit inventory, with features such as calculating possible kits available with currently stocked parts and generating shopping lists of parts according to number of kits needed.

Tech stack: Python, Django, DRF, SQL, ORM, Cucumber, Jenkins, Docker, Ansible, Linux.

LabelChopper • GitHub

Summary: Built website to convert Amazon labels to print using a label printer.

Tech stack: Flask, Cucumber, Jenkins, Ansible, SQL, ORM, Linux.

LawnManager • GitHub

Summary: Built hardware to run irrigation systems and software to run autonomously, with a web server for user control.

Tech stack: C++, ESP8266.

SOFT SKILLS

Bilingual (English and Spanish) • Communication with non-technical customers • Problem-solving • Self-learning.

WORK EXPERIENCE

Full-stack developer • self-employed • 2019 – present

Created complete software solutions for businesses, including a garage management system for a large haulage company, using Django (DRF) for a backend API, and React and React-Native for web and mobile clients. Redux was used for state management, Cypress and Cucumber were used for acceptance testing, and Jenkins and Ansible for automating DevOps.

Product designer • self-employed • 2011 – 2019

Designed audio recording hardware based on classic circuitry of the 60s, selling assembled units as well as DIY kits. I also developed software for internal use such as a kit inventory manager, using Django (DRF) as a back-end API.

Audio engineer • self-employed • 2007 – 2011

Freelance audio engineer working in recording studios such as Olympic and Metropolis.

EDUCATION

Degree • Graduated November 2022 • Open University, UK

Bachelor of Science (Honours) Computing and IT (First-class Honours) with distinction in all twelve modules taken, with an overall average of 94%.

Diploma • Graduated 2007 • Alchemea School of audio engineering, UK

Distinction.

TECH SKILLS

Languages: Python • JavaScript • C++ • HTML • CSS
Libraries: React • React-Native • Redux • NodeJS • Django • DRF
Tools: Docker • Git • Jenkins • Cucumber • Appium • Cypress
Systems: Linux • Windows • Linode • AWS