JACKY CHONG

Software Engineer Available immediately

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Professional Summary

- ◆ **4+ years** of professional experience as a software developer specialized in **Full-Stack, Firmware and GUI Development**
- ◆ Proficient in full-stack development utilizing **React, Bootstrap, ThreeJS, Spring Boot, Django, MySQL and PostgreSQL**
- ◆ Extensive experience in designing backend **RESTful APIs** and microservices
- ◆ Proficient in programming languages: **Python, JavaScript, Java, SQL, HTML** and **CSS**
- ◆ Experienced in CI/CD tools including **Jira, Git, Jenkins, Docker,** and **Linux OS**
- ◆ Extensive experience in GUI development, particularly with **Tkinter** and **PyQt5**
- ◆ Hands on experience in **Deep Learning** with **PyTorch**

Projects

IKEA Clone Live site: http://ckyjacky.ca:5001   **Full-Stack, Responsive, CI/CD**
- • Frontend: React, Bootstrap | Backend: Spring Boot | Database: MySQL | CI/CD: Jenkins & Docker

Portfolio Website Live site: http://ckyjacky.ca   **Scroll Animation, Responsive, CI/CD**
- • Frontend: React, Bootstrap | Scrolling Animation: GSAP | CI/CD: Jenkins & Docker

sEMG Based Motion Recognition Video: https://youtu.be/BvVN7xhin_0   **Deep Learning, GUI**
- • University Final Year Project **Grade: A+** | Deep Learning: PyTorch LSTM | GUI: PyQT5

Auto-following Car Video: https://youtu.be/iAUTrvcoG1g   **PCB Design + Firmware Design**
- • University Course Project **Grade: A** | Circuit Board Design | STM32 microcontroller firmware design

Education

The Hong Kong University of Science and Technology   2016-2020

Bachelor of Engineering in Electronic Engineering   Final Year Project: sEMG Based Motion Recognition (Grade A+)

Work Experience

Computing Solutions Advisor | **Best Buy Canada**   **Toronto, Canada, Sep 2023 – Present**
- • Offering personalized guidance, upselling and cross-selling computing devices, accessories and Best Buy services

Software Engineer | **PrimeCredit Limited - FinTech**   **Hong Kong, Jun 2022 – Apr 2023**
- • Developed a **Proof-of-Concept GUI,** showcasing **blockchain's (Hyperledger Fabric)** capabilities in streamlining the Loan Application Process, with presentations delivered to 3 HK major financial institutions
- • Managed the development, deployment and maintenance of **40 WhatsApp Business APIs** and its **Django-based Backend Server, handling 400k monthly messages**
- • Led **end-to-end migration of WhatsApp Business API to cloud infrastructure**: researched solutions, collaborated for system integration, presented benefits to users, conducted risk assessments, and managed contract negotiations for successful implementation.
- • Enhanced the Spring Boot customer data platform by implementing **Strapi, a headless CMS**, streamlining logic, content, and data updates to bolster support for programmatic advertising and digital marketing.

Firmware Design Engineer | **Cloud Light Technology Limited**   **Hong Kong, Jul 2021 – Jun 2022**
- • Designed, developed and tested **firmware and bootloaders in C** for 400G & 800G optical transceivers
  - ○ PMIC, design and develop drivers for I2C, SRAM, SDRAM, ADCs, Flash, GPIOs, ISR and peripheral ICs like TIA, CDRs
- • Developed and upheld the proprietary **Firmware Upload Software PyQt5 GUI** for testing engineer and clients
- • Collaborated with cross-functional teams, including testing, hardware, and chip vendors, to validate hardware and support technical leads in architecture discussions and design tradeoffs

Product Design Engineer | **Cloud Light Technology Limited**   **Hong Kong, Jun 2020 – Jul 2021**
- • Developed a **Python based Hardware Diagnostic GUI (PyQt5)** and **testing software** for automated firmware verification, products evaluation and demo
- • Conducted diverse **PCB Flying Probe** tests and failure and data analysis for design and yield improvement
- • Collaborated with PCB and Firmware Design Engineers to optimize designs for production and ensure compatibility with chips & components