# Raymond Li

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## SKILLS

**Languages**: Python, JavaScript (React, Node), Kotlin/Java, C/C++, HTML/CSS, Bash, LaTeX
**Technologies**: Git, GCP, Selenium, Docker, Apache, Arch Linux, WSL, Jenkins, Jira, Google-fu

## EXPERIENCE

### Tesla — Palo Alto, CA
**Software Engineering Intern** — Jan – Apr 2024

- Built multi-layered caching API for **SCons** build system to speed up builds by **70%** (**Python**, **Linux**)
- Automated tedious manual build-test-deploy of custom SCons with **Jenkins** CI pipeline and **Docker** containers, saving **3 days** per release cycle for core library used to build **200+** components
- Collaborated with Staff Engineers to extend in-house LLM solutions (**FauxPilot**, **HuggingChat**, etc) to diverse environments and applications, and drove **dev container** generation and adoption
- Spearheaded upgrade of all (**9**) components built on **Ubuntu** 12.04 to 20.04, completing full toolchain upgrades (GCC 4.X -> 10.5) and removing broken and obsolete **Docker** image. Enlisted **16** Staff/Senior Engineers in **5+** teams across multiple orgs (Autopilot, Energy, Firmware) to help

### CharaChorder — Dallas, TX
**Open Source** — May 2023 – Present

- Leading development of **nexus**, a cross-platform desktop app providing typing analysis

### AWS (Amazon) — Seattle, WA
**Software Development Engineer Intern** — Jan – Apr 2023

- Developed **Python** job to cleanup **30,000+** incommunicado (**96%** of all) DynamoDB Transaction-Coordinator nodes, significantly reducing EC2 usage costs and receiving SVP commendation

### PlayStation (Sony) — Waterloo, ON
**Software Engineering Intern** — May – Aug 2022

- Independently concepted, designed, developed and documented **first ever PS5 Easter Egg**
- Migrated **50%** of custom **React Native** tile components in PS5 Control Center app to common SDK, simplifying codebase, reducing compilation time and improving maintainability

**SDET Intern** — May – Aug 2021

- First prize at PlayStation worldwide hackathon (game-recommendation app, out of **100+** teams)
- Created widely adopted **Chrome Extension** to diff test spec versions, and scripts to automatically sort, version, label and template pytest test scripts, reducing time required by **90%**

## PROJECTS

### i3lock-color 🔗  C, X11 — 1,000+ stars, 130+ forks, 10,000+ users

- Owner and maintainer of the world's most popular non-default computer lockscreen

### VoiceBox 🔗  React.js, Material UI

- Text-to-speech webapp using **Google Cloud AI**, acquired by **iq-eq** (non-profit organization)

### Food Detective 🔗  Kotlin, Android, ChatGPT

- Generative-AI powered healthtech app using LLMs to decipher cryptic ingredient lists

## EDUCATION

### University of Waterloo — Bachelor's of Computer Science (Co-op) · Sep 2020 – Aug 2024

- 3.9 GPA, co-designed **CS 136L** Linux course, 2023 Sysadmin of Computer Science Club
- Research Assistantship: Created **ML** models to classify pilot skill based on real simulator data

**Interests:** Enjoys skiing, playing chess and violin, and would like to try skydiving. #btwIuseArch