

Raymond Li

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SKILLS

Languages: Python, JavaScript (React, Node), Kotlin/Java, C/C++, HTML/CSS, Bash, LaTeX

Technologies: Git, Docker, Jenkins, GCP, Selenium, Apache, Arch Linux, WSL, 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 conceived, 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 · 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. #btwluseArch