

WOOHYUN MICHAEL JO

+1) 510-345-8282
woohyun7878@berkeley.edu
linkedin.com/in/woohyunmjo

Berkeley, CA
woohyunmjo.com
github.com/woohyun7878

EDUCATION

B.A. Computer Science | University of California, Berkeley
Graduation Term (Projected): Spring 2023
GPA: 3.9 / 4.0

Relevant Coursework | Computer Programs, Computer Security, Data Structures, Discrete Mathematics & Probability Theory, Database Systems, Machine Structures, Artificial Intelligence, Information Devices and Systems

SKILLS

Python, Java, C/C++, Go, SQL (MySQL), HTML/CSS, JavaScript, Flask, Django, x86 MIPS, Lisp, Creative Cloud

WORK EXPERIENCE

TIKTOK | Incoming Software Engineer Intern May — August 2022
Full Stack • Cybersecurity

- Build rules, algorithms, and machine learning models to mitigate business risks—abusive accounts, fake engagements, spammy redirection, scraping, and fraud—in ByteDance products and platforms
- Establish modularized risk defense solutions and reduce manual workload on initiating risk controls on new business, risk area, or abusive means.
- Create an in-depth defense portfolio to uplevel risk defense excellence on risk perception and analysis, privacy, and compliance.

FASOO | Incoming Software Engineer Intern June — August 2021
Full Stack • Cybersecurity

- Constructed a user-authenticated Python Flask web application with intentionally hidden security vulnerabilities — Project PyFlaGoat.
- Deployed a securing mechanism to remediate every OWASP vulnerability in PyFlaGoat.
- Tested, implemented, and improved static Python checkers in Sparrow SAST, an intelligent application security testing solution.

SJF | Communications Intern June — August 2018
Technical Translation • Korean, English

- Translated technical communication to and from North America, Europe, and East Asia (SCR system, dioxin catalyst, and ceramic equipment).

PROJECTS

AccuLimit | git.io/J1kEB August 2021
Personal Project • Python

- Created a Darwin application that protects the host's battery health by modifying the root SMC and limiting the maximum battery charge.

PyFlaGoat | git.io/J1kEz June 2021 — August 2021
Professional Project (Fasoo) • Python, Flask, SQL, HTML5, CSS3, JS

- Developed an intentionally vulnerable Flask application to test, improve, and update Sparrow, an intelligent S/DAST testing engine.
- Integrated an eminent defense portfolio—SonarQube detects 0% of the hidden security flaws of PyFlaGoat that Sparrow is now able to detect.

Genie Music Scraper | git.io/J1kEV July 2021
Personal Project (Browser Extension) • JS

- Implemented a browser extension that executes JavaScript commands to compile Genie Music playlists into classified plain text lists.

Portfolio | git.io/J1kEo March 2021 — Present
Personal Project (Website) • Bootstrap, HTML, CSS, JavaScript

- Built a static portfolio website using Bootstrap, HTML, CSS, and JavaScript at woohyunmjo.com.

Gitlet | git.io/J1kEA March 2021 — April 2021
Course Project (CS 61B: Data Structures) • Java

- Implemented a version-control system that employs hashed file serialization to mimic some of the basic features of the popular system Git.

RECOGNITION

UPE Computer Science Honor Society | PR Committee September 2021 — Present

Ra-On (KA Rock Band) | Lead Guitarist September 2021 — Present

Habitat for Humanity (HFH) | President, Volunteer Coordinator September 2017 — May 2020

- Built multiple homes for the homeless in Thailand and South Korea; Raised and donated \$12,000 USD to HFH Korea during my tenure as president.

Cornell-Yonsei Forensics Invitational | Grand Champion July 2018

Global Youth Entrepreneurship Challenge | Winner May 2018