

# WOOHYUN MICHAEL JO

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## 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  
Risk Data Mining - Machine Learning

- 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** | 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](https://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](https://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](https://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](https://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](https://woohyunmjo.com).

**Gitlet** | [git.io/J1kEA](https://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