# **WOOHYUN MICHAEL JO**

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## **EDUCATION**

B.A. Computer Science | University of California, Berkeley

Graduation Term (Projected): Spring 2024

GPA: 3.9 / 4.0

Relevant Coursework | Computer Programs, Computer Security, CalTeach, Data Ethics, Data Structures, Discrete

Mathematics & Probability Theory, Database Systems, Machine Structures, Artificial Intelligence, Information Devices & Systems, Machine Learning, Efficient Algorithms & Intractable Problems

#### **SKILLS**

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

## **WORK EXPERIENCE**

**PROOFPOINT** | Software Demolition Engineer Intern

January — May 2023

Full Stack – Security & Test – Python, CTAF, Docker, AWS, XMPP

- Preventative hacking and framework testing for the Cloudmark Security Platform, a SaaS detection tool for spam, viruses, phishing, and other endpoint messaging threats.
- Constructed a centralized and regressive test automation framework for heterogeneous networks and remote devices using XMPP.

#### TIKTOK | Software Engineer Intern

May — August 2022

Backend - Risk Data Mining - SQL, Apache Hive, Python, Pandas DataFrames

- Engineered empirical evaluation metrics to improve antispam precision, eliminate resource waste, and identity faulty rules in TikTok's rule-based business risk detection system.
- Created a visual analysis tool to develop an SOP (Standard Operating Procedure) for batch rule retirement; reduced manual workload—Dorado, Aeolus, Shark—on initiating risk controls on new business.
- Built algorithmic rules to circumvent abusive accounts, fake engagements, spammy redirection, and scraping in ByteDance products and platforms.

#### FASOO | Software Engineer Intern

June — August 2021

Full Stack – Cybersecurity – Python, Django, MySQL, SQLite

- 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, a static application security tester.

## **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 15% of the hidden security flaws of PyFlaGoat that Sparrow can detect.

## Genie Music Scrapper | 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.

### 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 | Inductee** 

September 2021 — Present

Cornell-Yonsei Forensics Invitational | Grand Champion

July 2018

Global Youth Entrepreneurship Challenge | Winner

May 2018