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, SQL, C, Flask, Django, JavaScript, HTML, CSS, LaTeX, Jinja, MIPS, RISC-V, Lisp, Creative Cloud, SketchUp

WORK EXPERIENCE

FASOO | Software Engineering 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 (Shinjin Furnace Machinery) | 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.
- Quality tested on Intel Macs and regularly utilized by colleagues for energy-intensive operations, such as gaming or video editing.

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.
- As of August 2021, SonarQube detects 0% of the hidden security flaws of PyFlaGoat that Sparrow is now able to 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.

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.

Moneythings | bit.ly/3Ci5hJx   June 2018 — March 2020
Personal Project (YouTube) • Flat Animation Motion Graphics • After Effects, Illustrator, Audacity
- Produced bite-sized, flat-animation infographics using After Effects CC as a complement to my independent study in motion graphics.

ACTIVITIES

UPE Computer Science Honor Society | PR Committee   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.

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

Future Business Leaders of America (FBLA) | Vice President   September 2016 — May 2020
- Global Youth Entrepreneurship Challenge Winner, Korea Business Competition Grand Champion (2), Recognition by the Korean National Assembly

Speech & Debate Club (Forensics) | Mentor   September 2016 — May 2020
- Cornell-Yonsei Invitational Grand Champion, NSDA Korea Nationals 3rd Place, Recognition by the Korean National Assembly