ALLEN S. MAO

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OBJECTIVE

UC Berkeley computer science undergraduate student currently at NASA with machine learning, national security, and software engineering background looking for Summer 2021 internship.

EDUCATION

University of California Berkeley *August 2019 - May 2022 (expected)*
BA—Computer Science, (Linguistics Minor), GPA: 3.57/4.0 *Berkeley, California*

· '19-20: Creator of viewSESAME, a framework that makes a human-readable version of CoNLL outputs as part of automatic semantic role labeling research at the International Computer Science Institute.

Ohlone College *August 2018 - May 2019*
Math and Computer Science for Transfer, GPA: 4.0/4.0 *Fremont, California*

· Josephine Butala Mathematics Scholarship; Douglas Gallacher, M.D. Memorial Scholarship

WORK EXPERIENCE

NASA John F. Kennedy Space Center *August-December 2020 (current)*
Software Engineering Intern *Merritt Island, Florida (virtual)*

· Command and control software development for launch control system of the Artemis I and II missions.

US Air Force 80th Flying Training Wing *June-August 2020*
***N**ational **S**ecurity **I**nnovation **N**etwork X-Force Fellow* *Sheppard Air Force Base, Texas (virtual)*

· Consultant data analyst for the Euro-NATO Joint Jet Pilot Training Program to optimize pilot training.
· Analysis and visualization of decades of student pilot grades with `pandas` to identify significant trends.

University of Southern California Information Sciences Institute *June-August 2019*
National Science Foundation-Funded Research Fellow (REU) *Marina del Rey, California*

· Lead researcher on automatic software metadata extraction with Natural Language Processing and REST APIs for the **So**ftware **M**etadata **E**xtraction **F**ramework and **M**odel **INT**egration projects.
· Trained `sci-kit learn` classifiers to extract software metadata from unstructured text documentation

Berkeley Engineering and Research, Inc. *June-August 2018*
Engineering Intern *Berkeley, California*

· Built and programmed Arduino (C)–Android (Java) wireless setup to replace NI DAQ machines.
· Scanned, edited, and printed 3D scans of human faces with Microsoft 3D Builder for face reconstruction.

ADDITIONAL ACTIVITIES AND MISCELLANEOUS SKILLS

· **Publication:** "**So**ftware **M**etadata **E**xtraction **F**ramework": 10.1109/BigData47090.2019.9006447

· **Projects:** *Maskit*: a robot that screens for mask compliance using computer vision; *CovidAccountable*: Chrome extension that identifies PPP fund recipients (**Global Hacks Overall Best Prize**)

· **Technologies, Frameworks:** Assembly, C/C++, HTML/CSS, Java (Android), JavaScript, LabView, Python (`pandas`, `scikit-learn`), Perl, R, SQL; AccuRev, CUnit, Git, JUnit, *NIX, Robot Framework

· **Languages**: English (native), French (national medalist), Mandarin (heritage), Russian (self-study)