

ALLEN S. MAO

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OBJECTIVE

Incoming SDE intern at Amazon, computer science undergraduate at UC Berkeley, and current SDE intern at NASA with machine learning and national security background interested in cool projects.

EDUCATION

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

- Member of: Political Computer Science club, Chamber Music (as pianist)
- Analyst at the Asia, Middle East, & North Africa Center for Entrepreneurship and Development
- Created viewSESAME, a framework that parses and visualizes outputs for FrameNet project at ICSI.

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)*

- Software engineering intern for launch control system of the Artemis I and II missions.
- Developed acceptance tests to test and verify launch control system's behavior prior to launch.

US Air Force 80th Flying Training Wing *June-August 2020*
National Security Innovation Network 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 **Software Metadata Extraction Framework** and **Model INTegration** projects.
- Trained **sci-kit learn** classifiers to extract software metadata from unstructured text documentation

ADDITIONAL ACTIVITIES AND MISCELLANEOUS SKILLS

- **Publications:** “**Software Metadata Extraction Framework**”: 10.1109/BigData47090.2019.9006447; “COVID-19’s Long Term Impacts on Economic Inequality in the United States”: first-prize winner in the *Berkeley Economic Review*’s Fall 2020 Essay Contest
- **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)