

ALLEN S. MAO

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OBJECTIVE

Undergraduate Computer Science student at UC Berkeley with machine learning research background and software experience looking for data science or software engineering internship for Fall 2020.

EDUCATION

University of California, Berkeley *August 2019 - May 2021 (expected)*
BA—Computer Science, (Linguistics Minor), GPA: 3.57/4.0 *Berkeley, California*

- '20-21: Incoming Data Analyst Intern at the Asia, Middle East, & North Africa (AMENA) Center for Entrepreneurship and Development
- '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
- Object-Oriented Programming in C++, Data Structures in C++, x86_64 Assembly, Java Programming

WORK EXPERIENCE

US Air Force 80th Flying Training Wing *June-August 2020 (current)*
NSIN (National Security Innovation Network) X-Force Fellow *Sheppard Air Force Base, Texas*

- 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.
- In-progress white paper on 3x pilot performance and consequential cost reductions through VR training.

University of Southern California, Information Sciences Institute *June-August 2019*
National Science Foundation-Funded Research Intern (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 (MINT) projects.
- Trained **sklearn** 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:** “SoMEF: A Framework for Capturing Scientific Software Metadata from its Documentation.” DOI: 10.1109/BigData47090.2019.9006447
- **Misc. Projects:** *Maskit*: a robot Raspberry Pi that uses Computer Vision to regulate customer entry; *CovidAccountable*: Chrome extension that identifies recipients of 2020 Payment Protection Program funds (**Global Hacks Overall Best Prize**); X’ Analysis of Lezgian Grammar
- **Languages:** Assembly, C/C++, HTML/CSS, Java (Android), JavaScript, Python, Perl, R, SQL; English (native), French (national medalist), Mandarin (heritage), Russian (beginner)