

# Bill Shao

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## EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

Spring 2023

B.A. Computer Science and Linguistics: 3.9 GPA

Coursework: Structure and Interpretation of Computer Programs, Designing Information Devices and Systems I, Data Structures, Designing Information Devices and Systems II

STANFORD - AUDITED COURSES

Spring 2020

CS229: Machine Learning, CS231n: Convolutional Neural Networks for Visual Recognition

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## EXPERIENCE

2021 - Ongoing **Nvidia - IDTECH ONLINE TEEN ACADEMY CURRICULUM DESIGNER**

- Trained to operate Nvidia Jetson hardware for instructing 50+ high school students in machine learning techniques ranging from k-means clustering to CNNs and segmentation tasks.
- Rewrote part of the curriculum to account for issues SSH interfacing with course technology. Incorporated into wider course curriculum.
- Gained and helped 30+ students achieve Nvidia Jetson AI specialist certification.

2021-2022 **HORIZON MATHEMATICAL RESEARCH INTERN**

- Worked under Princeton Ph.D. Candidate Angelina Wang in learning CNN systems with Pytorch during a 5-week long research program.
- Explored 3 learning and dynamic feedback methods to bias correction in Neural Networks using UTK, FairFace datasets. Practiced with numpy, pandas, regex, matplotlib.
- Practiced visual design skills and data management to create visual depictions of machine learning findings.

2018 - 2020 **EQUAL OPPORTUNITY TECHNOLOGY**

*Instructor and Lead Technical Engineer*

- Spearheaded testing and integration of Snipe-it, Linux Database system for 200+ organization computers. Optimized system managing time by 30+ hours per refurbishing phase.
- Developed algorithmic curriculum lectures and videos, taught 25 students in basic to advanced C++ and Java.
- Helped to organize workshop sessions of 40+ community members on hardware and software basics.

2019 - 2021 **LOS ALTOS ALGORITHMS TUTOR**

- Guided 20+ students in USACO Bronze and Silver concepts with C++. Taught Lists, Stacks, Trees, Graphs data structures.
  - Held 1-1 tutor sessions on basic Dynamic Programming and Data Structures concepts such as Dijkstras, bellman ford, etc.
  - Helped 15+ students advance divisions in USACO Bronze to Silver.
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## WORK & ACHIEVEMENTS

2019 USACO GOLD COMPETITOR

NATIONAL FORENSIC LEAGUE SPECIAL DISTINCTION

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## PERSONAL SKILLS

- Languages: C++, Java, Python, HTML, SQL, Regex
  - Linux and Vim Experience
  - Code Environments: Visual Studio Code, Eclipse, Pycharm, Docker, Git
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## PROJECTS

Intel Synopsys Science Fair Paper: "Correction of Racial Bias in Facial Recognition Datasets" 2020.

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