

MAX DARLING

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EDUCATION

Stanford University

Stanford, CA

Graduation Summer 2021

- B.S. in Computer Science
 - GPA: 3.72/4.0
 - Teaching Assistant, Intro to Computer Science (CS106A/B)
 - Taught weekly problem solving sections for groups of ~12 students
 - Held weekly office hours providing 1-on-1 Python and C++ help
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EXPERIENCE

Full Stack Developer Intern

San Mateo, CA

Summer 2020

IXL Learning

- Developed and pushed a core new feature to the IXL site with +35 million monthly active users
- Wrote extensive updates to existing APIs; refactored and improved several React components
- Successfully self-taught a wide range of technologies: React, Struts 2, JSP, Hibernate, SQL

Software Engineering Intern

Santa Clara, CA

Summer 2019

SoundHound Inc.

- Developed the "historical facts" flow for the Hound voice assistant (4.5 stars, +800 reviews on App Store)
- Created web scraping and data cleaning scripts in Python to gather historical fact data from the web

Data Science Intern

Tokyo, Japan

Summer 2018

Mitsubishi Research Institute (TYO: 3636)

- Built a pipeline for gathering labelled machine learning data using Amazon Mechanical Turk (MTurk)
 - Worked in a team of 10 machine learning engineers to build and improve a chatbot to assist Japanese people during natural disasters and national emergencies.
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PROJECTS

Pintos

Spring 2020

From-scratch operating system written in C

- Created an OS on top of Pintos fork with fully functional virtual memory, concurrency, and file system
- Wrote interrupt routines, page fault handler, frame eviction and allocation algorithms, and many core syscalls
- Independently architected concurrency models for both virtual memory and parent-child processes.

Systems Research

Fall 2019

Quarter-long research project under Prof. Michael Bernstein

- Proposed the "adaptive hash table", which alters its internal configuration in response to real time changes in both usage patterns and characteristics of incoming data.
 - Built a functioning prototype in modern C++. Conducted experiments; wrote an academic paper on the results.
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SKILLS

Languages & Technologies

- Skilled in C++, Python.
- Familiar with C, Java, Javascript, HTML, CSS, React, Node.js
- Experienced with Git, Vim, LaTeX

Coursework

- *Systems*: operating systems, distributed systems, programming language design
- *Theory*: complexity theory, discrete mathematics, combinatorics (Spr '21)
- *AI*: AI principles, natural language processing, probability and statistics

MORE ABOUT ME

- **Japanese**: I'm conversationally fluent, and am continuing to pursue full fluency so that I might work in Japan one day.
- **Soccer**: I enjoy playing pick-up, watching the Premier League on weekends, and rooting for Liverpool.
- **Cooking**: I cook for fun. Also, I spent a summer working in a Japanese kitchen, and love trying peculiar dishes when travelling. Tried natto yet?
- **Philosophy of Mind**: I'm perplexed by consciousness and cherish myriad thought experiments (eg. the Chinese Room).