

Ken Chen

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EDUCATION

University of California, Berkeley

GPA: 3.91/4.00

B.A. COMPUTER SCIENCE, 2019

- Database Systems
- Internet Architecture
- Computational Photography
- Computer Architecture and Design
- Efficient Algorithms and Intractable problems
- Computer Security
- Data Structures and Algorithms

EXPERIENCE

Samsara

May - Aug. 2018 **and** Jan. - Mar. 2019

SOFTWARE ENGINEERING INTERN

- Built new Go microservices to extract GPS location information of connected IoT devices to infer proximity associations between tractors and trailers.
- Created a database, worker scheduler, gRPC APIs, and frontend React components to source and serve trend data to various services/clients.
- Worked on IoT embedded firmware in C to detect unexpected movement of devices to prevent valuable asset theft.

Heartflow, Inc.

June 2017 - Aug. 2017

SOFTWARE ENGINEERING INTERN

- Worked on the backend team to build data staging systems to support development and verification of algorithms for CT scan analysis and blood flow simulations.
- Interfaced with Django API and AWS S3 to design end to end integration tests to verify entire product workflow.

Blueprint, Technology for Non-Profits

Sept. 2016 - Dec. 2018

PRESIDENT | PROJECT LEAD | DEVELOPER

- Leading a student organization of 5 project teams to develop software for local nonprofits, previous leader of a project team.
- Built a web platform for nonprofit Roots of Success to host course modules and teach underserved communities the skills for environmental careers.
- Used Ruby on Rails and ReactJS to create student and admin course dashboards, audio components, teaching slides, multimedia components, and progress quizzes.

HBI Solutions, Inc.

June 2016 - Aug. 2016

SOFTWARE ENGINEERING INTERN

- Built a deep learning architecture to assess patients' risk factors for contraction of certain diseases and readmission to hospital based on health data from global databases (Healthix, HealthInfoNet).
- Improved sensitivity of the acute myocardial infarction (heart attack) model by 44% comparing areas under ROC plots.

Stanford Cardiovascular Intensive Care Unit

June 2016 - Dec. 2016

DEVELOPER

- Created an iOS app using Swift, Xcode, NodeJS, and MySQL for doctors and nurses within Stanford's CVICU to easily log and retrieve patients' surgical complications in real-time.

SKILLS

PROGRAMMING LANGUAGES

Python, Go, Javascript, C, Ruby, Java

WEB

Ruby on Rails, React, Django, NextJS, Express, HTML, CSS

MOBILE

React Native, Swift/Xcode

DATA SCIENCE

Tensorflow, R

DESIGN

Photoshop, Sketch/Figma, Illustrator, InDesign

AWARDS

- National Chemistry Olympiad Finalist (USNCO)
- MIT Leadership Award
- Science Olympiad States 1st Place Team; individual 2 Gold, 5 Silver, 3 Bronze Medals
- American Invitational Mathematics Exam (AIME) qualifier, 2012 - 2015

LINKS

PROGRAMMING PROJECTS

github.com/Lbkchen

PERSONAL WEBSITE

kenchen.io

LINKEDIN

linkedin.com/in/kenzchen

DESIGN

behance.net/ken-chen