

Ken Chen

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EDUCATION

UC Berkeley (4.0 GPA)

2015 - 2019

- B.A. in Computer Science and B.A. in Molecular and Cell Biology
- Relevant courses (in progress*): Artificial Intelligence, Efficient Algorithms, Computer Architecture*, Data Structures, Data Computing in R, Linear Algebra, Multivariable Calculus

Palo Alto High School

2011 - 2015

TECHNICAL SKILLS

LANGUAGES

DETAILS

General programming

Python, Java, C

IntelliJ

Web programming

Ruby, JavaScript, HTML, CSS

Ruby on Rails, ReactJS, NodeJS

Mobile programming

Swift

Xcode

Statistical analysis

Python, R, SQL, Shell, Google Script

TensorFlow (deep neural networks), data visualization

EXPERIENCE

Software Engineering Intern, HBI Solutions

Palo Alto, CA (June 2016 - Aug 2016)

- 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 model by 44% comparing areas under ROC plots.
- Generalized deep network based on Stacked Denoising Autoencoders (SDA) to be versatile for all data inputs; 98.4% testing accuracy on the benchmark MNIST (handwritten digit classification) data set.
- Learned to effectively present study designs, flowcharts, and results to a diversely-skilled team under deadlines.

Project Leader, Blueprint

Berkeley, CA (Sept 2016 - Present)

- Building a dynamic and scalable web platform for non-profit Roots of Success to host course modules and teach those in underserved communities the skills needed for environmental careers.
- Using Ruby on Rails and ReactJS. Features include student and administrator course dashboards and the ability to add audio, teaching slides, multimedia video, and progress quizzes.
- Leading a team of 4 developers to refine/test features and prepare for app deployment in April.

Developer, Stanford Cardiovascular Intensive Care Unit

Stanford, CA (June 2016 - December 2016)

- 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.
- Learned how to build an efficiently scalable program for the future addition or modification of any surgical complications. Also added security measures to prevent database attacks (SQL injection, etc.).

Design Consultant, Indiegogo: Berkeley Innovation

Berkeley, CA (Jan 2016 - June 2016)

- Consultant for Berkeley Innovation, Berkeley's Human Centered Design (HCD) agency that strives to design starting from the user and ending with solutions that are tailored to their every need.
 - Worked with Indiegogo to redesign their entrepreneur support platform. Our project proposed new profile pages for innovators that are streamlined with Indiegogo's initiative to support them across a longer lifespan.
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AWARDS

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

2014

2013

2012 - 2015

LINKS



github.com/Lbkchen



linkedin.com/in/kenzchen