

# Jonathan A. Chang

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## EDUCATION

**UCLA** B.S. in Electrical Engineering  
*Expected Fall 2018*

## SKILLS

★★★

C, C++, Ruby, Java

★★☆

Python, R, HTML/CSS, Git, Bash,  
Photoshop

★☆☆

Rails, Sinatra, Javascript, JQuery,  
MATLAB, SML, Tensorflow, React

## COURSEWORK

- Introduction to Computer Organization (CS33)
- Software Construction Lab (CS35L)
- Logic Design of Digital Systems (CSM51A)
- Operating Systems Principles (CS111)
- Intro to Algorithms and Complexity (CS180)
- Intro to Formal Languages and Automata (CS181)

## INDEPENDENT LEARNING

I completed over 12 CS-related MOOCs, including:

- Agile Development Using Ruby on Rails
- The Analytics Edge (R)
- Software Development (Java)
- Machine Learning (Octave)
- Deep Neural Networks (Python)
- Programming Languages (SML)

Learning is a lifelong passion of mine.

## OBJECTIVE

To obtain an internship in software engineering or a data science position that will utilize my dedication to learning and building, and my motivated and organized approach to problem solving.

## EXPERIENCE

Dumar International/Ballard Pacific (2005-2011)

- Hired for manual data entry in Excel, but built software to map EDI purchase orders to Excel, generate EDI acknowledgment and invoice orders, generate invoice PDF forms for the accountant, generate bills of lading for shipping, automate shipping label printing, integration with UPS and FedEx.
- Effectively removed need for the department, removed processing bottleneck and allowed business to expand up to 3 times the shipments the following year.
- Coordinated with distributors, warehouse, transport, and buyers, to solve logistics problems.

## PROJECTS

- Hangman game using Ruby and Sinatra as the server, hosted on Heroku.
- Trained a deep neural network model using Tensorflow to recognize digits using MNIST data set.

## ACTIVITIES

- Attended DataFest 2017 competition at UCLA and presented with a team.
- Attended VEX U Worlds 2016 with Mt. SAC Community College as programmer. Worked on robots that shot balls into a basket using PID control.

## FOREIGN LANGUAGES

Chinese Mandarin.