

# Youny Kuang

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## EXPERIENCE

- Cisco Meraki** *March 2015*  
*Software Engineer*
- Practice Fusion** *Jun 2014 - Aug 2014*  
*Software Engineering Intern*
- Worked on MedRx team, which deals with all things prescription related through the Electronic Medical Record system.
  - Developed a tool to handle inbound refill requests from pharmacies - presentation: [loonyuni.github.io](http://loonyuni.github.io)
  - Used Ember.js as the front end framework and built the backend API in C#/.Net/WCF in accordance with Service Oriented Architecture (SOA)
- Allen Institute for Brain Science** *Jun 2013 - Aug 2013*  
*R&D Summer Intern*
- Developed content based image retrieval software (both standalone GUI executable and ImageJ plugin) to recognize individual brain slices for brain mapping pipeline.
  - Explored other methods of computer vision and machine learning including SIFT/SURF, PCA, Visual Bag of Words, Support Vector Machines, and Neural Networks using Java and Python.
- Haas School of Business** *Jan 2014 - Present*  
*Web Programmer*
- Maintain and update content on Center for Financial Reporting and Management website.
  - Mainly static HTML/CSS, some PHP and ASP.NET
- UC Berkeley - Lydia Sohn Lab** *May 2013 - Present*  
*Undergraduate Researcher*
- Designing and testing diagnostic microfluidic device with Siemens to sort single circulating tumor cells.
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## EDUCATION

- University of California, Berkeley** *Expected: Dec 2015*  
*B.A. Molecular Cell Biology: Genetics*
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## RELEVANT COURSEWORK

Algorithms/Intractable Problems	Data Structures & Algorithms	Discrete Math/Probability
MATLAB Programming	Computational Biology	Nano-Biology
Networking	Algorithms in Computational Bio	Artificial Intelligence
Linear Algebra	Differential Equations	Genetics

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## SKILLS

- Front End:** Javascript/JQuery, HTML/CSS, Ember.js  
**Back End:** Java, C#, Python, MATLAB, Django  
**Frameworks and Libraries:** ASP.NET, WCF, Git, SVN, Linux Command Line Tools, OpenCV/NumPy/SciPy/scikit-learn, Tkinter, ApE, JMP, ImageJ, Photoshop/Illustrator/Indesign
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## ACTIVITIES

- Future Scientist** *Jan 2013 - Aug 2013*  
*Project Lead*
- Constructed water filtration system for school in rural Panama that serves over 900 students.
  - Delegated tasks, managed team, and learned/implemented sustainable human centered engineering design concepts; performed needs assessment, prototyping, etc.
- Engineering Without Borders** *Jan 2013 - Present*  
*Treasurer*
- Manage budget, help write grants to raise over \$10k, and facilitate logistics of club as executive officer
  - Design and optimize filtration and mixing system as well as types of coagulants for arsenic removal from Peruvian water.
- Biomedical Engineering Society** *May 2012 - Jun 2013*  
*Public Relations Chair*
- Managed and effectively delegated tasks to 20 person committee and used scrum like methodologies with task management systems such as Trello and Asana.
  - Held workshops to teach Design Concepts, Marketing skills, and Software (Adobe Creative Suite)
  - Initialized many projects; website [[bmes.berkeley.edu](http://bmes.berkeley.edu)], blog, videos, newsletter, fliers, yearbook, clothing, and other platforms that advertise to its ~100 consistent members.