

## Simon (Haoran) Liang

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### Education

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**Rose-Hulman Institute of Technology**, Terre Haute, IN September 2009 - May 2013  
Bachelor of Science in Computer Science and Computer Engineering  
GPA **3.75/4.00** in Major, **3.53/4.00** Overall

### Technical Skills

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Strong Language: Java, JavaScript (mithril.js, AngularJS, React, jQuery, lodash), Python  
Knowledgeable Language: Ruby (on Rails), Objective-C  
Technology: AWS (S3, Lambda, SNS, SQS), OpenCV

### Experience

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**Software Development Engineer** August 2013 - Present  
*Amazon Fashion, Amazon, Inc., Seattle, WA*

- Worked with a large variety of technologies as a full-stack developer
- Develop and maintain Amazon Fashion Pages on Amazon Website and Native iPad Application
- Develop and prototype enhanced UX web applications for fashion-engaged customers at Amazon

### Projects

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**Project Lead**, Bra Fitter, Amazon Fashion, Seattle, WA July 2015 - Present  
*Desktop Web Application that helps female customers to find fitting bras*

- Built frontend using a slim Virtual-DOM-Based JavaScript Framework, `mithril.js`, for uni-directional data flow
- Designed an AJAX-streaming technique to decrease the Above the Fold latency from 1500ms to 250ms, and made the service calls highly parallelized

**Developer**, Outfit Explorer Prototype, Seattle, WA January 2015 - June 2015  
*Responsive Web Prototype that allows customers to mix-and-match outfits via a drag-and-drop interface*

- Helped design and prototype a **Backbone** Application driving a WebGL-enabled canvas view via `Pixi.js` in order to maximize rendering performance on all platforms
- Created a CRUD-based inventory management tool for merchandisers to upload cropped garment images onto S3 using **AngularJS** and **Django**
- Prototyped a simple web-based garment cropping tool using **Django**, **OpenCV** and **AngularJS**, which later on ported to use **Java Spring**, **OpenCV** and `mithril.js` for performance, utilizing the GrabCut Algorithm

### Activities

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**Curriculum Planner, Mentor and Judge**, CodeGirls, Guangzhou, China December 2015  
*Bootcamp that teaches high school/college female students web development*

- Designed a 5-day course on basic web development by teaching **Rails**, **Bootstrap** and **jQuery**
- Students worked on their website ideas in groups of 3 with the help of mentors
- Wrote detailed frontend tutorials and recorded video tutorials for the event
- URL: <https://github.com/Code-Girls/2015Winter/wiki>

**Intern Mentor**, Amazon Fashion, Seattle, WA June 2015  
*12-week Summer Internship Program at Amazon*

- Worked with the intern to gather requirements and choose appropriate technology for the project
- Gave advice on backend Java service development and dev resources for Android development
- Guided intern to learn and use Java 8 Stream API
- Suggested software engineering resources to read about refactoring and clean code
- Worked out plans with the intern to take the Android prototype to production