Patrick**Yoon**
Software engineer

about
me@patyoon.com
www.patyoon.com
github.com/patyoon

languages
English, Korean

programming
Ruby, Python,
Scala,
Java,
JavaScript,
Haskell,
Emacs Lisp

experience

03 14' - current	**Airbnb Inc.**	Senior Software Engineer

Machine Learning Infrastructure Team

- Designed and built Redspot, an alastic notebooking platform for exploring data, ML model development, training, and diagnostics and supported
- Designed and built DIS, a framework for managing and building composable Docker images for machine learning and data science.
- Built online serving stack of Zipline, ML feature management platform optimized for computing features with strctured, time series data.

Guest Growth Team

- Built a framework for storing all non-users created by various channels and tracking their notification subscription settings.
- Designed and built Mochi, a service for scheduling, prioritizing, and sending promotional emails and push notifications.
- Designed and built Newspeak, a service for translation backend that improves scalability and reliablity of the existing architecture.
- Supported internationalization (i18n) libraries and translation features on the website.
- A member of the Sysops team, Airbnb's incident-response organization from 2014 to 2016.

08 13' - 02 14'	**TellApart Inc.**	Software Engineer

- Developed ad campaign management and audience targeting tool including migrating campaign configurations, defining domain-specific language for targeting rules, and optimizing campaign budgeting.
- Other projects include: offline data aggregation, experimentation with new ad formats, and canonicalization of product categories.

05–08 12'	**Microsoft Bing**	SDE Intern

- Built a classifier for deciding query intent in Bing Local Search Team that outperforms the existing classifier by 8.5% in precision and recall on a sample query set.
- Experimented with ways of mining training data and semi-supervised approaches to label them and compared end-to-end metrics.

06–09 11'	**Google Inc.**	Software Engineering Intern

- Developed a internal framework that periodically updates visualization for various statistics for AdWords advertisement formats.
- Implemented a new Search Ads format in Media Ads team and plugged into Google Web Server.

education

2012–2013	**University of Pennsylvania**	Philadelphia PA, USA
	M.S.E. in Computer Science	

2008–2012	**University of Pennsylvania**	Philadelphia PA, USA
	B.S.E. in Computer Science	

Scholarship

| 2012 | **Google Lime Scholarship for Students with Disabilities** | Mountain View, CA |

- $10,000 awarded based on the strength of candidates' academic background and demonstrated passion for computer science.

| 2008 | **Korea Presidential Science Scholarship** | Seoul, South Korea |

- Full undergraduate tuition scholarship awarded based on candidates' academic background and research experiences.