

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 elastic notebook platform for exploring data, ML model development, training, and diagnostics and supported 300 WAU users including almost all data scientists in the company.
- Designed and built DIS, a framework for building and managing composable Docker images for machine learning and data science.
- Built online serving stack of Zipline, feature management platform that provides a general-purpose feature processing, aggregation, and joining framework.

Guest Growth Team

- Built a framework for storing non-users created by various channels and tracking their notification subscription settings.
- Designed and built Mochi, a scheduling service for prioritizing and sending promotional emails and push notifications.
- Designed and built Newspeak, a translation backend service that improves scalability and reliability of the existing architecture.
- Served as the primary POC for supporting internationalization (i18n) libraries and translation features for all product teams.
- Served as a member of the Sysops team, Airbnb's incident-response organization responding to all SEV-0 incidents.

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

Software Engineer

- Developed ad campaign management and audience targeting tool, including migrating campaign configurations, defining a domain-specific language for targeting rules and optimizing campaign budgeting.
- Other projects include 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 an internal framework that periodically updates visualization for various statistics for AdWords advertisement formats.
- Implemented a new Search Ad format in the Media Ads team and plugged into Google Web Server.

education

2012–2013	University of Pennsylvania M.S.E. in Computer Science	Philadelphia PA, USA
2008–2012	University of Pennsylvania B.S.E. in Computer Science	Philadelphia PA, USA

Scholarship

2012	Google Lime Scholarship for Students with Disabilities	Mountain View, CA
	<ul style="list-style-type: none"> • Awarded by Google based on the strength of candidates' academic background and demonstrated passion for computer science. 	
2008	Korea Presidential Science Scholarship	Seoul, South Korea
	<ul style="list-style-type: none"> • Awarded by the government of South Korea based on candidates' academic background and research experiences. 	