

# Patrick Yeo Ho Yoon

Software engineer

## about

www.patyoan.com  
bit.ly/email-patyoan

## languages

English, Korean

## programming

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

## experience

03 14' - 02 22' **Airbnb Inc.**

Senior Software Engineer

*Founding Member of Machine Learning Infrastructure Team*

- Led the development of Jupyter notebook platform for exploring data, ML model development, training, and diagnostics used across all data scientists and ML engineers.
- Developed a framework for building composable Docker images for machine learning and data science.
- Built online serving stack of Zipline, a feature management platform that provides a general-purpose feature processing, aggregation, and join framework.

*Guest Growth Team*

- Co-led development of a scheduled delivery service for promotional emails and push notifications and implemented automated promotional marketing program, which drove 100k+ incremental bookings.
- Built a translation serving API backend that improves scalability and reliability of serving translated contents.
- Served as a primary maintainer of email delivery system, internationalization and localization libraries and backend.
- Served as a member of incident-response organization responding to production SEV-0 incidents.
- Founded and Co-led the employee resource group for disabled employees and allies.

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 Ads format in Media Ads team and plugged it into Google Web Server.

## education

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

## Scholarship

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