Patrick Yeo Ho **Yoon**

Software Engineer

about

patyoon.com
bit.ly/email-patyoon

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 the Jupyter Notebook platform for data exploration, ML model development, training, and diagnostics, used by all data scientists and ML engineers at Airbnb.
- Developed a framework for building composable Docker images for machine learning and data science.
- Built the online serving stack of Zipline (open sourced as Chronon), a feature management platform that provides a general-purpose feature processing, aggregation, and join framework.

Guest Growth Team

- Led the development of a scheduled delivery service for promotional emails and push notifications, and implemented an automated promotional marketing program, which drove 100k+ incremental bookings.
- Built a backend service that improves the scalability and reliability of serving translated content.
- Served as the primary maintainer of the email delivery system, internationalization (i18n) libraries, and translator interface.
- Worked on the Sysops team, Airbnb's incident-response organization, responding to all 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 an 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 included experimenting with new ad formats and the canonicalization of product categories.

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

- Built a classifier for deciding query intent on the Bing Local Search Team that outperforms the existing classifier by 8.5
- 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 visualizations for various statistics for AdWords advertisement formats.
- Implemented a new Search Ads format on the Media Ads team and integrated it into the Google Web Server.

Founded and Co-led the employee resource group for disabled employees and allies.

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

- Awarded by Google based on the strength of candidates' academic backgrounds and demonstrated passion for computer science.

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

- Awarded by the government of South Korea based on candidates' academic backgrounds and research experiences.
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