Patrick Yeo Ho **Yoon**
Software engineer

about
www.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 Jupyter notebook platform for exploring data, ML model development, training, and diagnostics used across all data scientists and ML engineers at Airbnb.
- 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

- Led development of a scheduled delivery service for promotional emails and push notifications and implemented automated promotional marketing proram, which drove 100k+ incremental bookings.
- Built a backend service that improves scalability and reliability of serving translated contents.
- Served as a primary maintainer of 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.

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   **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 background 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 background and research experiences.