

# Patrick Yeo Ho Yoon

Software Engineer

## experience

### about

patyoon.com  
bit.ly/email-patyoon

### languages

English, Korean

### programming

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

01 24' - Present **WeaveGrid**

Senior Software Engineer II, Devices Team

- Led major automaker (Rivian, Toyota, Hyundai, Stellantis) and EVSE (Emporia) partnerships, owning technical design, integration roadmap, and cross-team alignment.
- Designed and shipped the core Partner APIs and a device signal framework that aggregates charging data to optimize driver costs and grid health, enabling partners to seamlessly connect their vehicles to our platform.
- Streamlined how the engineering team works with external partners by establishing a dedicated lead-engineer model, and trained teammates on our core charging software to decentralize knowledge and scale team capacity.
- Drove company velocity through full-stack development of critical internal tools—including a Simulator, UIs, and a counterfactual data framework—delivering metrics to internal and external stakeholders.

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'	<b>Microsoft Bing</b>	SDE Intern
	<ul style="list-style-type: none"> <li>• Built a classifier for deciding query intent on the Bing Local Search Team that outperforms the existing classifier by 8.5</li> <li>• Experimented with ways of mining training data and semi-supervised approaches to label them, and compared end-to-end metrics.</li> </ul>	
06–09 11'	<b>Google Inc.</b>	Software Engineering Intern
	<ul style="list-style-type: none"> <li>• Developed an internal framework that periodically updates visualizations for various statistics for AdWords advertisement formats.</li> <li>• Implemented a new Search Ads format on the Media Ads team and integrated it into the Google Web Server.</li> </ul>	

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

## 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 backgrounds 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 backgrounds and research experiences.</li> </ul>	