

# Patrick Yeo Ho Yoon

Software Engineer

## experience

### about

patyoon.com  
bit.ly/email-patyoon

### languages

English, Korean

### programming

Ruby,  
Python,  
Scala,  
Java,  
JavaScript,  
Haskell,

01 23' - Present **WeaveGrid**

Senior Software Engineer II, Devices Team

- Led major automaker (Rivian, Toyota, Hyundai, Stellantis) and EVSE (Emporia) partnerships, owning technical design for vehicle telematics and charge schedule generation, 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'

### **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.

## **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

- 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.