

experience

about

patyoon.com
bit.ly/email-patyoon

languages

English, Korean

programming

Ruby,
Python,
Scala,
Java,
JavaScript,
Haskell

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'

Microsoft Bing

SDE Intern

- Built a classifier for deciding query intent on the Bing Local Search Team that outperformed 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 updated visualizations of 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.