

about
patyoon.com
bit.ly/email-patyoon

languages
English, Korean

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

experience

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.

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| 05 – 08 12' | Microsoft Bing <div style="text-align: right; font-weight: normal; font-size: 0.8em;">SDE Intern</div> <ul style="list-style-type: none"> • 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. <div style="text-align: right; font-weight: normal; font-size: 0.8em;">Software Engineering Intern</div> <ul style="list-style-type: none"> • 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

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|-----------|---|-----------------------|
| 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

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| 2012 | Google Lime Scholarship for Students with Disabilities <div style="text-align: right; font-weight: normal; font-size: 0.8em;">Mountain View, CA</div> <ul style="list-style-type: none"> • Awarded by Google based on the strength of candidates' academic backgrounds and demonstrated passion for computer science. |
| 2008 | Korea Presidential Science Scholarship <div style="text-align: right; font-weight: normal; font-size: 0.8em;">Seoul, South Korea</div> <ul style="list-style-type: none"> • Awarded by the government of South Korea based on candidates' academic backgrounds and research experiences. |