

# JAKE UNDERLAND

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## PROFESSIONAL EXPERIENCE

- Optimind Inc** - Algorithms Developer/Product Manager Apr 2022 - Present  
- Backend engineering for VRP route optimization program [Loogia](#). Designed and implemented heuristics in bidirectional  $n$  to  $n$  A\* resulting in over 20% reduction in calculation time of p99 requests.  
- Led the design and implementation of features for the two core algorithms teams. Established feedback cycles: focus groups for identifying pains and forming hypotheses, targeted user hearings for validating hypotheses, and log based and web based metrics to quantitatively evaluate user value delivered by new features.  
- Bootstrapped founding of new team to deliver customizable data pipelines aimed at enterprise customers. Shipped MVP and landed two enterprise customers contributing upwards of 15% of company MRR.
- Waseda University School of Political Science and Economics** - RA Feb 2022 - Aug 2022  
- Econometric analysis of electricity usage in developing countries. Implemented linear models, IV models, dynamic structural estimation with GMM in R.
- Bank of Japan** - IT Department Summer Internship Sep 2021 - Oct 2021
- Morgan Stanley** - IT Summer Insight Program Jul 2021 - Aug 2021
- Google Developer Student Club Waseda** - Backend Lead Jun 2021 - Jun 2022  
- Led the Backend Team at Japan's largest Google Developer Student Club.
- CreateBase** - Full stack Developer Intern Jun 2021 - Apr 2022  
- Crawled, analyzed, and visualized ecommerce data for dashboard SaaS.
- University of Chicago** - RA Jan 2021 - Apr 2021  
- Econometric analysis of state educational policies.

## EDUCATION

- Waseda University - School of Political Science and Economics** (GPA 3.7/4.0) Apr 2019 - Mar 2023  
[Global Leadership Fellows' Program](#) fellow. Advisors: [Tadao Hoshino](#), [Hisatoshi Tanaka](#).
- University of Chicago** (GPA 3.93/4.0) Sep 2020 - Jul 2021  
Exchange program. Took courses in econometrics and computer science. Participated in research assistantship.

## SKILLS

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|-------------------------------|--|
| <b>Languages:</b>             | Japanese (Native), English (Native)  |
| <b>Programming Languages:</b> | Python, Go, C++, Javascript, SQL (Postgres), R   |
| <b>Infrastructure:</b>        | GCP (GKE, Cloud Run, CloudSQL, BigQuery, Dataform, Functions, Compute Engine, GCS, Monitoring), Docker, AWS (SQS, Lambda), Github Actions, Terraform, DataDog, Fivetran. |

## CERTIFICATES

- Japan Statistical Society Certificate Level 3, Best Grade, 2019
- Waseda University Arai Takanobu Scholarship

## EXTRA CURRICULAR

- Mall Tomorrow** - Cofounder Jul 2022 - Present  
- Designed and developed backend architecture of EC system MallTomorrow using Golang, Postgresql, GCP (Cloud Run, CloudSQL).
- Catholic Commission of Japan for Migrants, Refugees and People on the Move** 2015 - Present  
Caretaker, Educator, Translator