

JAKE UNDERLAND

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Looking for part-time and freelance opportunities in data science, software engineering, and related fields.

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*
Public Economics RA, Educational Economics RA. Crawled and analyzed data in a DiD framework.

PROFESSIONAL EXPERIENCE

Optimind Inc - Algorithms Developer/Product Manager *Apr 2022 - Present*
- Algorithms engineering for VRP route optimization program [Loogia](#). Designed graph search algorithms, maintained CI/CD pipelines, migrated cloud infrastructure configuration from GUI to IaC.
- Led two 5 people teams using scrum methodology. Defined critical user journey through market analysis, collected SLIs and defined SLOs.

Bank of Japan - IT Department Summer Internship *Sep 2021 - Oct 2021*

Morgan Stanley - IT Summer Insight Program *Jul 2021 - Aug 2021*
- Developed and deployed internal CI/CD application to monitor logs and detect anomalies using Python, FastAPI, GCP (Cloud Run), DataDog

Google Developer Student Club Waseda - Backend Lead *Jun 2021 - Jun 2022*
- Led the Backend Team at Japan's largest Google Developer Student Club.
- Used scrum methodology to manage engineers; placed Top 50 in Google's annual Global Solution Challenge.

CreateBase - Full stack Developer Intern *Jun 2021 - Apr 2022*
- Developed web applications using PHP+Laravel, Python; crawled, analyzed, and visualized ecommerce data
- Developed low level logging infrastructure for workstations incorporating image recognition using C++, OpenCV.
- Optimized resource allocation using reinforcement learning resulting in 28% less food waste at workstations.

SKILLS

Languages:	Japanese (Native), English (Native)
Programming Languages:	Python*, Go*, SQL (Postgres)*, C++*, Javascript*, PHP
Frameworks:	FastAPI*, Django, Gin*, React.js*, Next.js*, Laravel
Data Science:	Pandas*, NumPy*, Matplotlib*, Scikit-learn*, R+Rstudio, OpenCV.
Infrastructure:	GCP* (GKE, Cloud Run, CloudSQL, BigQuery, Dataform, Functions, Compute Engine, GCS, Cloud Monitoring), Docker*, AWS* (SQS, Amplify, Glue), Terraform*, DataDog*, Fivetran*.

*skills used at Optimind

CERTIFICATES

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

EXTRA CURRICULAR

Opeland - 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