

JAKE UNDERLAND

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Looking for full-time and internship opportunities in data science, software engineering, and related fields.

EDUCATION

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- Waseda University - School of Political Science and Economics** (GPA 3.7/4) *Apr 2019 - Mar 2023*
Global Leadership Fellows' Program fellow; Advisors: [Tadao Hoshino](#), [Hisatoshi Tanaka](#).
- University of Chicago** (GPA 3.93/4) *Sep 2020 - Jul 2021*
Public Economics RA, Educational Economics RA

PROFESSIONAL EXPERIENCE

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- Optimind Inc - Algorithms Developer** *Apr 2022 - Present*
- Algorithms engineering for VRP route optimization program [Loogia](#)
- Implementation of Dijkstra's algorithm, Montecarlo simulation of multinodal routing, machine learning pipeline for preference prediction using C++, Python, Julia, GCP, AWS.
- 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*
- Risk assessment for a Central Bank Digital Currency (CBDC) in Japan
- 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 agile 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)
Computer Languages:	Python, Golang, Julia, Javascript, C++, PHP, R, SQL (Postgres)
Frameworks:	Django, FastAPI, Gin, React.js, Next.js, Laravel
Data Science:	R+Rstudio, Pandas, NumPy, Matplotlib, Scikit-learn, OpenCV.
Deployment:	Docker, Google Cloud Run, AWS Amplify, Vercel, Heroku
Cloud:	GCP (Cloud Run, CloudSQL, Functions), AWS (Amplify, EC2, SQS).

CERTIFICATES

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

EXTRA CURRICULAR

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- 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