# Philip Charles Stevens

philipstevens.github.io

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## technical skills

**languages**

advanced
python • sql

proficient
r • scala • java • c#

**ai, machine learning & data science**

libraries
tensorflow • keras
scikit-learn • xgboost

algorithms
supervised learning
deep learning
unsupervised learning
reinforcement learning
nlp

practice
data cleaning
data & ml pipelines
feature engineering
predictive modeling
model evaluation/selection
model deployment
online A/B testing
data analysis
data visualisation

**big data**
spark • pyspark • hadoop

## summary

Experienced data scientist with 10 years building impactful AI and machine learning solutions across domains including digital advertising and online travel. Proven in delivering scalable models that drive business value and customer satisfaction. An avid world nomad currently exploring Southeast Asia. Looking to settle and start the next stage of my career. Open to remote work or relocation with dual Canadian and New Zealand citizenship.

## recent experience

**agoda | senior data scientist**
mar 2020 - feb 2023

Contributed to personalized user experiences for millions of travelers at a leading online travel agency. Focused on enhancing user experience and increasing hotel booking rates. Projects and responsibilities included:

- Applied contextual bandits to optimize front-end elements for end-users.
- Developed a match score system for recommended property displays.
- Enhanced and maintained a product featuring positive user-generated review snippets. Analyzed A/B tests to support product owner decision-making

**quantcast | modeling scientist**
oct 2013 - sep 2018

Joined through a startup acquisition. Quantcast is a SF-based digital marketing SaaS company that specializes in AI-driven real-time advertising, audience insights and measurement. Projects and responsibilities included:

- Played a key role in building and maintaining large-scale end-to-end machine learning pipelines, processing up to 30 PB per day.
- Enhanced existing targeting models by adding new features and conducting A/B tests for efficacy evaluation.
- Applied word2vec embeddings to user browsing history for dimensionality reduction, utilizing resulting embeddings for impactful tSNE visualizations as a marketing tool.
- Developed demographic prediction models to optimize creative targeting based on user likelihood.

## education

**master of science | computer science (1st)**
the university of auckland | 2012
- Faculty of Science Master's Award
- Master's Scholarship funded though Royal Society of New Zealand Marsden Grant, Dr. Beryl Plimmer

**bachelor of science (hons) | logic & computation (1st)**
the university of auckland | 2011
- First in Course Award in COMPSCI 767 (Intelligent Software Agents)
- Faculty of Science Summer Research Scholarship

**bachelor of arts | mathematics & philosophy**
the university of auckland | 2007–2010

## publications

stevens, blagojevic, & plimmer, 2013: "supervised machine learning for grouping sketch diagram strokes." *sbim '13*