

# Owain West

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## EDUCATION

### UNIVERSITY OF WATERLOO

PHD CANDIDATE IN COMPUTER  
SCIENCE

2019-Present

### UNIVERSITY OF PENNSYLVANIA

BA, MAJORS IN:

MATHEMATICAL LOGIC

COMPUTER SCIENCE

PHILOSOPHY OF SCIENCE

Magna Cum Laude | May 2019

Dean's List 2015-16, 16-17

## SKILLS

### PROGRAMMING

Proficient

JavaScript • Python • Java • OCaml

Familiar

Go • Elm • Kotlin • Ruby • Mathematica

### TECHNOLOGY

AWS • Bluemix • Jenkins • Node

Dialogflow • Git • Flask • SciPy

Alexa • Elasticsearch • Tensorflow

## COURSEWORK

### GRADUATE

Formal Logic and Model Theory | A+

Intuitionistic and Modal Logic | A-

Tractable Logics | A

Topology | A

Networks | A-

Differential Geometry | A

Set Theory | A

Computational Linguistics | P (P/F)

Model Checking | A

Topics in Bioinformatics | A-

### UNDERGRADUATE

Programming Languages | A

Software Design and Engineering | A

Algorithms | A

Probability Theory | A

Quantum Computation | A-

## LINKS

Website: [owainwest.com](http://owainwest.com)

Github:// [owainwest](https://github.com/owainwest)

LinkedIn:// [owainwest](https://www.linkedin.com/in/owainwest)

## EXPERIENCE

### ROYAL BANK OF CANADA | SOFTWARE ENGINEER, TORONTO

INNOVATION LAB

May - August 2019 | Toronto, Canada

- Continued development of conversational applications for Alexa and Google Home, contributing to production versions of the previously instigated PoCs.
- Developed pipeline for automated evaluation of semantic quality of text summarizations created within natural-language dialog systems.
- Investigated capabilities of on-device and open-source conversational platforms, such as Rasa and Mycroft, and helped organize a 100+ person internal hackathon to test those technologies.

### UNIVERSITY OF PENNSYLVANIA | HEAD TEACHING ASSISTANT, LGIC 010 (INTRO FORMAL LOGIC)

Jan 2016 - May 2019 | Philadelphia, USA

- Coauthored an introductory **textbook** for use in the class.
- Taught weekly recitation and office hour sessions. Managed other teaching assistants and helped develop curriculum and assignments.

### RBC | SOFTWARE ENGINEER INTERN, TORONTO INNOVATION LAB

May - August 2018 | Toronto, Canada

- Lead design and development of multiple highly-conversational application PoCs. Interviewed and onboarded external software firms to those projects.
- Wrote and trained copious NLP functionality for use in conversational and data-insight applications, including text classification models, topic models, document/word embeddings, and custom named-entity-recognition models.
- Developed a machine-vision based table parser which outperforms standards (eg Tabula, FineReader). Provisional patent was received for resulting work.

### RBC | SOFTWARE ENGINEER INTERN, INNOVATION RESEARCH AND DEVELOPMENT TEAM

May - August 2017 | Toronto, Canada

- Designed and built a chatbot to automate the developer onboarding process.
- Spearheaded internal research and development of experimental Alexa/Google Home products.
- Designed and developed: an internal vehicle-recommendation microservice, a tool to test series of conditional REST calls, and a webapp which matches potential homeowners to the neighbourhood which fits their social interests.

### UNIVERSITY OF WATERLOO | TEACHING ASSISTANT, CS 135 (DESIGNING FUNCTIONAL PROGRAMS)

Sept 2019 - Dec 2019 | Waterloo, Canada

### UPENN | TEACHING ASSISTANT, CIS 160 (DISCRETE MATH FOR CS)

Jan 2018 - May 2018 | Philadelphia, USA

### UPENN | SENIOR INFORMATION TECHNOLOGY ADVISOR

Sep 2015 - May 2017 | Philadelphia, USA

- Solved network and security problems beyond the skill of a regular ITA for a body of over 1200 student clients.
- Oversee and coach a team of Information Technology Advisors to deliver solutions to technical issues.