

Owain West

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EDUCATION

UNIVERSITY OF PENNSYLVANIA

BA. MAJORS IN:

MATHEMATICAL LOGIC/COMPUTER

SCIENCE/PHILOSOPHY OF SCIENCE

Expected May 2019 | Philadelphia, PA

Cum. GPA: 3.79/4.00

Dean's List all years

ST MICHAEL'S COLLEGE

Grad. June 2015 | Toronto, Canada

Cum. GPA 4.00/4.00

SKILLS

PROGRAMMING

Proficient

JavaScript • Python • Java • OCaml

Familiar

Go • Elm • Kotlin • Ruby • Mathematica

TECHNOLOGY

AWS • Bluemix • Jenkins • Node

Dialogflow • Git • Flask • SciPy

COURSEWORK

GRADUATE

Formal Logic and Model Theory | A+

Intuitionistic and Modal Logic | A-

Tractable Logics | A

Topology | A

Networks | A-

Differential Geometry | A

Computational Linguistics | P (P/F)

Mathematical for Physics | Ongoing

UNDERGRADUATE

Software Design and Engineering | A

Algorithms | A

Discrete Math for CS | A-

Multivariable Calculus | A

Astrophysics II | A

Probability Theory | A

Quantum Computing | A-

INDEPENDENT STUDY

Descriptive Complexity

Quantum Mechanics

LINKS

Github:// [owainwest](#)

LinkedIn:// [owainwest](#)

Twitter:// [@owainwest](#)

EXPERIENCE

ROYAL BANK OF CANADA | SOFTWARE ENGINEER INTERN, TORONTO INNOVATION LAB

May - August 2018 | Toronto, Canada

- Lead design and development of multiple highly-conversational application PoCs. Interviewed, onboarded external software firms to aid development for those projects.
- Wrote and trained copious NLP functionality for use in conversational and data-insight applications, including various 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).

ROYAL BANK OF CANADA | SOFTWARE ENGINEER INTERN, INNOVATION RESEARCH AND DEVELOPMENT TEAM

May - August 2017 | Toronto, Canada

- Ideated, designed, and built a chatbot to automate the developer onboarding process which could: install programs, set proxies, automate devops pipeline setup, request permissions/hardware/software for employees, automate writing weekly status updates, and much more.
- Spearheaded internal research and development of experimental Alexa/Google Home products.
- Designed and developed: an internal vehicle-recommendation microservice, a tool to test and visualize a series of conditional REST calls, a machine-learning based predictor of death cause, a webapp which matches potential homeowners to the neighbourhood which best matches their social interests, and many other projects.

UPENN | HEAD TEACHING ASSISTANT, LGIC 010 (INTRO FORMAL LOGIC)

Jan 2016 – Present | Philadelphia, PA

- Coauthored an introductory **textbook** with **Prof. Scott Weinstein**.
- Hold weekly recitation and office hour sessions for a class of 70 students.
- Manage other teaching assistants, develop curriculum and assignments.

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

Jan 2018 – May 2018 | Philadelphia, PA

- Hold weekly recitation and office hour sessions, create assignments.

UPENN | SENIOR INFORMATION TECHNOLOGY ADVISOR

Sep 2015 – May 2017 | Philadelphia, PA

- Solve network and security problems beyond the skill of a regular ITA for a body of over 1200 student clients.

BRIDGE: FRESHMAN MENTAL WELLNESS | FOUNDER

Sept 2015 – Present | Philadelphia, PA

- Founded and developed Bridge, a registered student organization at UPenn that focuses on mental health advocacy and peer support for freshmen.

FORD CREDIT CANADA | INTERN - DISCOUNTER

May-August 2016

- Analyzed financial documents using proprietary technical software.