

# Owain West

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A sharp analytical mind and strong communicator, Owain is an ideal candidate for technically, intellectually, and interpersonally demanding roles. See [owainwest.com](https://owainwest.com) to learn more.

## Education

### University of Waterloo

MMATH IN COMPUTER SCIENCE

Waterloo, Canada

Sept. 2019 - Dec. 2020

### University of Pennsylvania

BA, MAGNA CUM LAUDE. TRIPLE MAJOR IN: LOGIC, INFO., AND COMPUTATION; COMPUTER SCIENCE; PHILOSOPHY AND SCIENCE

Philadelphia, USA

Sept. 2015 - May 2019

## Experience

### TickPick

DATA ENGINEER

New York, USA

May 2022 - Present

- Responsible for managing and building on TickPick's cloud data infrastructure to orchestrate analytical data flows throughout the organization.
- Leading operation of our Airflow, Snowflake, dbt, Fivetran, Hightouch, and Stitch deployments, and building data flows with those tools.

### Thinknum Alternative Data

JUNIOR DATA ENGINEER

New York, USA

Jan-March 31st 2022

- Responsible for building ETL pipelines for extraction and ingest of open web data. Worked with Redis, PostgreSQL, BeautifulSoup, Selenium, Django, Gremlin, to build a scalable system for data procurement. E.g.: built pipeline to ingest detailed info on >5mil top Stackexchange users.
- Authored library for automated creation of bespoke Python parsing and handler classes for JSON+Id/RDFa/microdata that loosely matches Schema.org schemata, enabling hugely more general extraction of financially relevant open web data compared to previous internal technique.
- Implemented devops and testing requirements, including BlazeMeter and NewRelic monitoring.

### University of Waterloo

CS TEACHING ASSISTANT: 135 (DESIGN. FUNC. PROGRAMS), 245 (LOGIC + COMPUTATION), 330 (MGMT. INFO. SYSTEMS). 1/SEM.

Waterloo, Canada

Sept. 2019 - Dec. 2021

- Responsible for grading assignments and exams, communicating feedback effectively to students, and giving input for course development.

### University of Pennsylvania

TEACHING ASSISTANT: LGIC 010 (INTRO FORMAL LOGIC – 2017-19, HEAD TA 2018+19); CIS 160 (DISCR. MATH FOR CS – 2018)

Philadelphia, USA

Jan-May, 2017-2019

- For LGIC 010: coauthored an introductory **textbook** for use in class. As Head TA in 2018, 2019: lead other TAs and helped develop curriculum.
- For both: taught weekly recitation and office hour sessions, graded evaluations, and communicated feedback about course development.

### UPenn Student Federal Credit Union

SUPERVISORY COMMITTEE MEMBER, INFORMATION SYSTEMS COMMITTEE MEMBER

Philadelphia, Pennsylvania

Sept-May, 2016-2018

- Enacted regular audits to uphold a high standard of business and to comply with Federal banking regulations. Oversaw other core committees.
- Maintained and modernized the SFCU's website and digital presence, ensuring the security of sensitive banking information.

### Royal Bank of Canada, Toronto Innovation Lab

SOFTWARE ENGINEER INTERN/SUMMER HIRE

Toronto, Canada

May-Aug. 2017, 2018, 2019

- 2019: Continued development of conversational applications for Alexa and Google Home, including production versions of previously instigated PoCs. Developed pipeline for automated evaluation of semantic quality of text summarizations created within natural-language dialog systems.
- 2018: Designed + developed multiple conversational application PoCs. Interviewed external software firms to join internal projects. Trained deep learning NLP functionality for use in conversational and data-insight applications, including for text classification, topic modelling, and custom named-entity-recognition models. Developed a machine-vision based table parser; provisional patent was received for resulting work.
- 2017: Designed and built a chatbot to automate developer onboarding process. Championed internal research and development of experimental Alexa/Google Home products.

### Bridge: Freshman Mental Wellness

FOUNDER, CO-PRESIDENT

Philadelphia, USA

Sept 2015 – May 2017

- Founded and developed Bridge, which was a student organization at UPenn that focused on peer support for freshmen.
- Organized events and support of various kinds for students in the wider UPenn community.

### University of Pennsylvania

(SENIOR) INFORMATION TECHNOLOGY ADVISOR

Philadelphia, Pennsylvania

Sept-May, 2015-2017

- Solved network and security problems for university members. As senior ITA in Sept-May 2016-17, oversaw and coached other ITAs.

## Skills

### PERSONAL

- Strong: Presentation ability • Communication • Adaptability • Drive to succeed • Analytical Reasoning • Empathy • Leadership • Teamwork
- Problem-solving • Independent research • Quantitative thinking • Teaching ability • Emotional intelligence • Visual and verbal thinking

### PROGRAMMING

- Strong in: Julia • Python • SQL • NodeJS • K • OCaml • TLA+
- Familiar with: Go • Elm • Kotlin • Ruby • Mathematica • Java • C • C++ • Rust • Emacs Lisp • Typescript • HTML • CSS • R

### TECHNOLOGY

- AWS • Azure • ETL/Data Engineering • Airflow • Snowflake • dbt • Fivetran • Hightouch • Stitch • SQL&NoSQL: Postgress, MongoDB, Redis, Gremlin
- Docker • Jenkins • Dialogflow • Flask • SciPy • Numpy • Tensorflow • Pytorch • Alexa • Elasticsearch • Unix • Bioinformatics • Formal verification