

I'm an AI engineer with a unique background in human psychology and data science.

Education

- **PhD, Applied Cognitive Science**, University of Guelph, Canada 2011 – 2017
- **Master of Arts, Psychology**, Carleton University, Canada 2009 – 2011
- **Bachelor of Arts, Psychology (CS Minor)**, Bishop's University, Canada 2005 – 2009

Work Experience

Senior Prompt Engineer

Engineering / Assessments

Khan Academy

Mountain View, CA

Feb 2024 – Present

- Developed and evaluated an "Explain Your Thinking" activity for the Assessment experience, where students engage in a conversation with an AI to explain their reasoning behind their answer to a question
- Developed an AI item scaler to assist content creators with quickly generating item isomorphs for Assessments
- Led a small cross-functional team to prototype and evaluate AI tool for scoring student answers to short-answer questions
- Championed new best practices for human annotation and LLM Judge development

Data Scientist I / DS II / DS III

Educators Product Team

Prodigy Education

Toronto, Canada

Jun 2020 – Feb 2024

- Led a team in prototyping and evaluating a generative AI "Math Mentor", demonstrating innovative prompt engineering and AI-driven educational solutions.
- Spearheaded the design and evaluation of over 20 experiments with Teacher and Student users, enhancing user engagement and learning outcomes.
- Established KPIs and metrics to effectively measure Educator program objectives, showcasing strong analytical skills and strategic thinking.
- Developed ETL pipelines and dashboards, facilitating data-driven decision-making.
- Generated actionable insights from user data, informing product strategy and contributing to the creation of high-quality, user-centered learning experiences.

Data Scientist

Behavioural Science Team

Clover Health

New Jersey, US

Nov 2018 – Mar 2020

- Designed and analyzed over 25 behavioral science health interventions, demonstrating proficiency in creating impactful, data-driven solutions.
- Collaborated with product teams to scale high-impact interventions, employing algorithms for identifying eligible users and analytical designs to evaluate impact, reflecting skills in strategic thinking and cross-functional collaboration.

Research Scientist

Measurement & Technology Team

Datacubed Health

New York, US

Jan 2018 – Nov 2018

- Collaborated with the mobile app team to develop and validate novel mobile assessments of neurocognitive functioning, ensuring alignment with research standards.

Adjunct Associate Professor

School of Professional Studies

Columbia University

New York, US

Aug 2018 – Dec 2018

- Courses taught: APAN K5500 3 Data Visualization & Design

Asst. Research Scientist

Measurement & Technology Team

New York University

New York, US

Mar 2017 – Dec 2017

- Managed the selection, implementation, and validation of 100+ mobile psychological assessments