

## EDUCATION

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- **Northwestern University** Evanston, IL  
*B.S in Computer Science and Statistics; Major GPA: 3.96; High Honors* June 2022

## SELECTED SKILLS

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- **Languages:** Python, Scala, Java, Javascript, C#, C++
- **Tools:** AWS (EC2, RDS, Lambda), GCP (Dataflow, TFX, BigQuery), \*nix (Docker, Cron), Terraform, Jenkins
- **Technologies:** pandas, sklearn, Flask, Tensorflow, Prophet, Airflow (Python), Beam (Java), React (JS), SQL
- **Coursework:** Statistical Language Modeling, Statistical Machine Learning (Graduate), Generative Deep Models (Graduate), Network Modelling, Online Markets, Theoretical Foundations of ML, Design & Analysis of Algorithms

## EXPERIENCE

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- **Databricks** San Francisco, CA  
*Software Engineering/Data Science Intern: Data Team* Jun 2021 - Present
  - Contributing to the open source Databricks Terraform provider for Databricks infrastructure provisioning.
- **Snap Inc.** Los Angeles, CA  
*Machine Learning Engineer Intern - Ads and Monetization* Jan 2021 - Apr 2021
  - Researched usage of ad attribution data to enhance existing targeting and ranking models.
  - Contributed to production deep learning models to enhance Ad Ranking and Lookalike Modelling.
  - Built multi-head DNN language model to predict user language preferences and combine existing models. Used dropout layers to prevent overfitting, achieving 99% accuracy on English and Spanish heads in prod.
- **Amazon** Seattle, WA  
*Software Development Engineer Intern - Delivery* Jun 2020 - Sep 2020
  - Developed fast order metadata visualization for the Same Day Delivery team with caching and indexing.
  - Trained highest scoring product substitution model for ML class among 150+ interns/employees.
- **Accuity** Chicago, IL  
*Data Analyst Intern - Payments, Software Developer Intern - Compliance* Jun 2019 - Jun 2020

## LEADERSHIP AND ACTIVITIES

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- **Harvard Innovation Labs** Harvard  
*Fall + Winter* Sep 2020 - Mar 2021
- **NU Competitive Programming Group** Northwestern  
*Founder, President* Jan 2020 - Present
- **GirlsCodeIt, Harrison Careers, Northwestern Peer Mentoring** Remote  
*Volunteer Instructor, Career Mentoring* Dec 2019 - Present

## SELECTED RESEARCH AND VENTURES

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- **BERT context information encoding (Research):** A method to extend the vocabulary encoding of BERT with a context encoding of an input token, in a given sequence of text. Saw F1 improvement over base BERT (81.57 to 83.32)
- **centiments.net (Venture):** Web extension and protocol for inexpensive micropayment donations. Previously in partnership with The Harvard Crimson, The Lens and The Markup, and incubated at Harvard Innovation Labs.
- **BeaconCV (Venture):** Google Glass application that seeks to allow patients with Alzheimers and blindness to recognize people on sight. Sponsored by Nvidia and advised by and received \$2,000 funding from Professor Hammond.
- **Simple Search (Research):** Wrapper for (*Bidirectional Attentive Memory Networks for Question Answering over Knowledge Bases (2019)*) to support natural language query parsing and a simplified data model.

## AWARDS

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- **2019 ACM ICPC:** Top 1 at Northwestern
- **2018 National Merit:** National Merit Scholarship