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EDUCATION

UNIVERSITY OF WASHINGTON | BS IN COMPUTER SCIENCE, MINOR IN ENTREPRENEURSHIP

Sep 2018 - Jun 2021 | Seattle, WA | GPA: 3.94 / 4.0 Direct Admit into Paul G. Allen School of Computer Science

FXPFRIFNCF

SENIOR DATA SCIENTIST | PENDULUM

Nov 2021 - Present | Seattle, WA

- Leveraged **reAct and chain-of-thought prompting with LLMs** for search boolean query generation, topic name generation and summarization, and narrative / stance classification, leading to the company's first LLM-powered product features
- Fine-tuned BERT models for classifying high-risk communities (conspiracy, QAnon, anti-SJW, etc.) for 4+ million social media channels across YouTube, TikTok, X, and more platforms, successfully identifying over 50,000 high-risk channels
- Designed and developed a model to generate **embeddings for social media channels**, facilitating the discovery of similar channels across multiple platforms
- Architected and implemented an **adaptive data ingestion system** for TikTok, which assessed the value of a channel to prioritize and collect high-risk content efficiently, reducing operational costs significantly

CO-FOUNDER / CEO | VERBALEYES

Jan 2021 - Nov 2021 | Seattle, WA

- VerbalEyes aimed to make the world's digital video content accessible for both humans and computers
- Led a company of 12 across customer research, business strategy, design, and engineering multi-modal ML systems for automated video narration
- Completed 112 end user engagements, partnered with the Washington State Audio Description Project to expand audio description efforts at 8 higher education institutions, and was awarded \$26,750 in funding
- Inaugural fellow at Madrona Venture Labs for summer 2021, became the first employee at another startup in the lab

TEACHING ASSISTANT | University of Washington

Mar 2021 - Jun 2021 | Seattle, WA

Taught office hours, created discussion materials, and graded homework for CSE 446 (Machine Learning)

SOFTWARE DEVELOPMENT ENGINEER INTERN | AMAZON

Jun 2020 - Sep 2020 | Seattle, WA

• Implemented a distributed index for Amazon's largest datalake reducing the computational cost of querying tables by 90%

AI RESEARCH FELLOW | GIVING TECH LABS

Sep 2019 - Jun 2020 | Seattle, WA

- Constructed a social impact funding knowledge graph from unstructured web data, powering social sector market insights
- Trained a deep neural network to classify documents to the most relevant UN SDG at 78% accuracy

PUBLICATIONS

- [1] L. Jiang* and **D. Zhu***. VerbalEyes: A Large-Scale Inquiry into the State of Audio Description. *CMD-IT/ACM Richard Tapia Celebration of Diversity in Computing Conference*, 2021. [PDF]. * denotes equal contribution.
- [2] Y. Li, V. Zakhozhyi, **D. Zhu**, and L. J. Salazar. Domain Specific Knowledge Graphs as a Service to the Public: Powering Social-Impact Funding in the US. *In Proceedings of the 26th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD '20)*, 2020. [PDF].

AWARDS/SKILLS

AWARDS/HONORS

- 2021 1st Place Tapia Undergrad Poster Competition
- 2021 Inaugural MVL Entrepreneurship Fellow
- 2021 Dempsey Startup Competition Top 16
- 2021 Google CS Research Mentorship Program
- 2020 Giving Tech Labs Distinguished Research Fellow

SKILLS

Languages

Python • SQL • Javascript • Java

Technologies

AWS • PyTorch • PySpark • HuggingFace • Scikit-learn •

MetaFlow • FAISS • Weights & Biases