Daniel Zhu

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EDUCATION

UNIVERSITY OF WASHINGTON | BS in Computer Science, Entrepreneurship Minor
Sep 2018 - Jun 2021 | Seattle, WA
GPA: 3.95 / 4.0
Direct Admit into Paul G. Allen School of Computer Science (<5% Admission Rate)

EXPERIENCE

SOFTWARE ENGINEERING INTERN | Amazon
Jun 2020 - Sep 2020 | Seattle, WA
- Research and design indexing solution for distributed file system on Amazon's largest datalake, significantly reducing computational cost of big data queries

AI RESEARCH FELLOW | Giving Tech Labs
Sep 2019 - Jun 2020 | Seattle, WA
- Constructed domain-specific knowledge graphs from unstructured web data by leveraging topic modeling, named entity resolution, and text summarization
- Curated a document dataset for UN SDGs and tuned a deep neural network to categorize texts to the most relevant UN SDG at 78% accuracy
- Designed an automatic algorithm to detect and extract social problems from web data, used to populate 1000+ content pieces for https://x4impact.org/

RESEARCH ASSISTANT | Integrated Brain Imaging Center (UW Radiology)
Jun 2018 - Dec 2019 | Seattle, WA
- Developed a preprocessing pipeline in Python to automate the preparation of FMRI data using the AFNI software package
- Identified fMRI biomarkers for Alzheimer's disease classification through k-means clustering

PROJECTS

HACK 20' | Quarantine Track Winner
Nov 2018 | Seattle, WA
- Creatively improved the video conferencing experience through transforming any video into a holographic illusion
- Used Deeplabv3 Resnet to identify foreground objects and remove the background of a video

UW DUBHACKS | Data Track Finalist
Oct 2018 | Seattle, WA
- Hacked together a web application that helped students organize their university dining account financials through a comprehensive and predictive dashboard

AWARDS/SKILLS

AWARDS
2020	KDD Student Registration Award
2020	Amazon NLP Accelerator Top Scorer
2020	Giving Tech Labs Distinguished Research Fellow
2018	National Merit Finalist
2018	National AP Scholar

PROGRAMMING
Advanced
Java • Python • Kotlin • SQL
Familiar
CSS • HTML • Bash • JavaScript • C • Scala

LIBRARIES/TOOLS
Pytorch • MxNet •NumPy • Pandas • Scikit-Learn • Flask

PUBLICATIONS

[1] 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.