

# 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

Aug 2020 | 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. Zakhozhnyi, 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.