# **JACOB THRASHER**

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### **EDUCATION**

Ph.D.	West Virginia University, Computer Science	May 2028
<b>BSCS</b>	West Virginia University, Computer Science	Dec 2022
BS	West Virginia University, Mathematics	Dec 2022
	Summa Cum Laude, Honors Foundation Scholar	

#### **EXPERIENCE**

## West Virginia University, Morgantown WV Graduate Research Assistant, Dr. Prashnna Gyawali

2023-Present

- Currently researching multimodal survival analysis with incomplete data to predict Alzheimer's Disease progression in patients given any combination of MRI scans, clinical notes, and cerebral spinal fluid data.
- Led a team of researchers on a review of multimodal federated learning in the healthcare domain.

# West Virginia University, Morgantown WV Undergraduate Research Assistant, Dr. Xin Li

2022

- Developed flexible TikTok scraper with Python and Selenium to create a diverse dataset of drug related content.
- Implemented Vision Transformer models with PyTorch for binary classification.

# **Federal Bureau of Investigation,** Chantilly VA **Honors Intern**, Technology Innovation Unit

2020

• Designed email parsing and analysis tool to locate suspicious language in target's email. Programmed in Python utilizing Elasticsearch and Kibana software tools.

### **PUBLICATIONS**

Thrasher, J. et al. "Multimodal Federated Learning in Healthcare: a review" (2023) (submitted for review at Patterns journal)

Hu, C. et al. Including Jacob Thrasher. "UDPExplainer: an Interpretable Transformer-based Framework for Urban Physical Disorder Using Street View Imagery" (2023)

### Founder/President, Artificial Intelligence WVU

2021-22

- Led weekly meetings, maintained ongoing club projects, and taught technical workshops for beginners.
- Brought in guest speakers from notable companies such as Tesla and Noblis to speak with the club members.

### President, Game Developers Club

2020-21

- Reworked the basic club structure to put more emphasis on real game development and public outreach rather than focusing solely on development theory.
- Led weekly meetings, educating members on game development skills.

### **VOLUNTEER WORK**

Statler College Ambassador, West Virginia University	2022-23
"Al in a Day" high school workshop organizer, Artificial Intelligence WVU	2022
Extra Life charity event organizer, Game Developers Club	2021
Girl Scouts game development badge workshop, Game Developers Club	2019