

# Matthew Petillo

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## TECH EXPERIENCE

### **Research Assistant, University of Kansas**

*2022-Present*

I helped build systems to assist in research related to service meshes under the direction of Prof. Alex Bardas concerning security issues with multi-hop communications in microservices. A paper has been accepted into ACSAC 2024.

### **Technical Staff, California Institute of Technology**

*Summer 2023*

I contributed to an ongoing project developing a proprietary leak detection system for a natural gas company under the direction of Prof. Axel Scherer. I successfully implemented a machine learning-powered system in collaboration with a research team. Work from this experience is still under active non-disclosure.

### **SURF Fellow, California Institute of Technology**

*Summer 2022*

I helped to rebuild and reprogram real-time control of a microfluidics system with an attached microscope. Work from this experience is still under active non-disclosure.

## OTHER EXPERIENCE

### **University Daily Kansan, University of Kansas**

*2021-2024*

*News Correspondent/Senior Reporter – 2021-22 Academic Year*

I was responsible for writing 2-3 articles a week on a variety of topics, including crime and public safety, university administration, and student senate governance.

*News Editor – 2022-23 Academic Year*

I managed a staff of roughly 20 volunteer reporters, including an associate news editor, to put out daily reports on the University of Kansas. I edited national-award winning pieces and successfully ran the Kansan's 2022 Election coverage, including a 16-page voter guide and statewide election night coverage.

*Editor in Chief – 2023-24 Academic Year*

I ran the Kansan's editorial operations, expanding the brand across Lawrence and growing our digital circulation by 25%. I had over 120 staff members that I was responsible for, including 20 direct reports. I was able to double the Kansan's budget during my tenure and lead the newspaper to an All-Kansas award in the Public University Online/Digital category.

### **Data Journalist, Dow Jones News Fund/Kansas City PBS**

*Summer 2024*

I was responsible for creating investigatory pieces using publicly available data and expert opinion. I wrote a piece which was the top performing piece for the YTD period as of September.

## EDUCATION

### **Pursuing B.S., Computer Science, University of Kansas**

*Currently expected to graduate May 2026*

### **Pursuing B.S., Multimedia Journalism, University of Kansas**

*Currently expected to graduate May 2026*

## ACHIEVEMENTS

### **Speaking Appearances**

I appeared on KCUR (NPR in Kansas City) to talk about a major story that I broke regarding the suspension of a fraternity at the University of Kansas in 2022. I was also invited to speak about the Kansan's election coverage at a KU conference the following year.

### **Awards**

I received and accepted a SURF fellowship award in 2022 and declined another in 2023. I was named a White House Correspondents Association scholarship winner in 2024 and attended the White House Correspondents Dinner. I received two Society of Professional Journalists Region 7 awards, being named a finalist in breaking news and the winner for campus reporting. I received my Eagle Scout award in 2019 and received my third-degree black belt in taekwondo in 2021.

### **Publications**

- [“Development of a Microfluidics System for Next-Generation Sequencing,”](#) California Institute of Technology, 9/17/22
- “CloudCover: Enforcement of Multi-Hop Network Connections in Microservice Deployments,” ACSAC 2024. Pre-publication.

## KEY SKILLS

*JavaScript + Node.js, R, Python, Lua/Luau, C++, C, SQL, HTML, CSS, Docker, Kubernetes, Software Engineering, Team Management & Leadership, Analytical Writing, Public Speaking*

## REFERENCES

**Upon Request**