

# Uros Stanic

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## EDUCATION

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PhD in Computer Science <b>Texas A&amp;M University, College Station, TX</b> (GPA: 4.0/4.0)	Jan 2025 – Present
Bachelor's with Honors in Software Engineering <b>University of Novi Sad - Faculty of Technical Sciences</b> (GPA: 9.58/10.0)	Oct 2020 – Oct 2024

## RESEARCH EXPERIENCE

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Research Assistant at Texas A&M University	Jan 2025 – Present
<ul style="list-style-type: none"><li>Develop and maintain a custom sandbox for malware tracing and fuzzing of malware samples, based on Intel Pin instrumentation.</li><li>Apply AI classifiers, rule-based, and capabilities techniques for malware detection and classification based on logs collected from the aforementioned sandbox.</li><li>Conduct research in dynamic malware analysis under Dr. Marcus Botacin.</li></ul>	
Visiting Research Intern at Texas A&M University	Jul 2023 – Sep 2023

• Completed a malware research internship through the CSSAP program.

• Designed and implemented a sandbox using Intel Pin to trace Windows API calls of executables.

## PROJECTS

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AI-powered fuzzing smart sandbox	Ongoing
<ul style="list-style-type: none"><li>AI-guided optimal fuzzing of malware samples in the sandbox to build a function call graph. The product of fuzzing is function call graphs, which improve classification over traditional methods.</li></ul>	
Best practices for malware sandboxing	Ongoing

• Review of current state-of-the-art, identify shortcomings, and provide the best practices regarding data collection and model architecture. Compare AI detection to rule-based techniques.

Bachelor's Thesis: Dynamic Binary Instrumentation Implementation

Completed 2024

• Implemented Intel Pin instrumentation for dynamic tracing of Windows API calls (200+ most common ones for malware detection).

## CERTIFICATES

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Intro to Dark Web Operations, Security Blue Team	Aug 2024
TamuHack mentor	Jan 2026

## SKILLS

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Cybersecurity	Malware analysis, Malware detection, OSINT, Steganography, C/C++
AI	Binary classification, NLP (log parsing), Pytorch, Python
Web development	Spring, Angular, React, GO Docker, AWS basics
Software development	Agile software development, ClickUp, Git, Design Patterns