

# Yoshiaki Sato

Computer Science and Communications Engineering Student

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## EDUCATION

### WASEDA UNIVERSITY

Bachelor of Science in Computer Science and Communications Engineering

Tokyo, Japan

2022-2026

## EXPERIENCE

### Project Research, Network Security Lab (Waseda University)

Oct - Jan 2025

- Enhanced understanding of network, web, and offensive security concepts through TryHackMe and PicoCTF.
- Conducted binary reverse engineering using Ghidra and x64dbg, experimenting with ML integration to automate parts of malware analysis workflow.

### MLOps Intern, HowCollect Inc.

Tokyo, Japan, Apr - Jun 2024

- Developed, fine-tuned, and deployed AI chatbots across various platforms (LINE, Zendesk, etc.) using AWS.
- Implemented RAG models using OpenAI, Claude, and LLaMa to customize solutions for corporate clients.

### Intern, Singularity Systems

Princeton, New Jersey, May - Aug 2021

- Gained foundational knowledge in coding, including Python and OOP principles.
- Explored computer vision techniques using OpenCV, including document analysis and image preprocessing.

## SKILLS

- Programming Languages: C, Python
- AI/ML: PyTorch, WandB, Docker, AWS (EC2, SageMaker, RDS, etc.)
- Cybersecurity: Nmap, Metasploit, BurpSuite, Ghidra, x64dbg, Malware Analysis, Linux, VMware
- Keywords: Machine Learning, Information Security, Networking, Research, Teamwork, Communication

## PROJECTS

### Malware Analysis Research

- Analyzed well-known malware (e.g., WannaCry, Zeus, Stuxnet) via static (binary reversing) and dynamic (sandboxing, Wireshark) methods.
- Explored ConvNet on the MaleVis Dataset to classify malware binaries, comparing AI-based static detection against traditional signature-based systems.

### Pre-Training Pipeline for Decoder Transformer

- Managed and optimized a large-scale ML workflow, improving loss by 40% from initial training rounds.
- Utilized over 35 hours of A100 GPU compute on Google Colab to train and refine model architectures.

## EXTRACURRICULAR ACTIVITIES

### Cofounder of Kuma Lab

Apr 2024 - Present

- Established a student community focused on robotics and AI research, fostering collaboration and knowledge-sharing to advance STEM research in Japan.

### Backend Developer, Google Developers Student Club

Nov 2023 - Feb 2024

- Collaborated on the Google Solution Challenge, developing a tool to improve navigation for university laboratories.