

Shoto Morisaki

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EDUCATION/CERTIFICATIONS

University of California, Santa Cruz

Expected Graduation Date: June 2025

Bachelor in Science as Computer Science

Relevant Coursework: C++, Python, Java, Discrete Structure, Computer Architecture, Data Structure, Software Engineering, Calculus I & II, Linear Algebra, Modern Physics, Electromagnetism, Statistics,

IBM Cybersecurity Analyst Professional Certificate

Summer 21

Equipped me with the necessary technical skills and practical experience to be job-ready as a Cybersecurity Analyst, including using industry tools like Wireshark and IBM QRadar

CTI - Coding Program

Spring 21

Established excellent teamwork skills and problem-solving skills by figuring out modules for critical coding skills. Communicated with mentors and team members.

PROJECTS

i. [CruzHack 2024](#) - Spring 24

Developed a web application that identifies controversial issues in the UCSC area. Scraped Reddit posts spanning 10 years, classified them into emotion labels, enabling identification of topics with strong sentiments. Utilized frontend technologies (Next.js, React), backend skills (FastAPI, SQLite, ChatGPT API), and hosting on Render.

ii. [Qiita × Fast DOCTOR Health Tech Hackathon](#) - Summer 23

Developed a platform to streamline paperwork in the medical industry, utilizing the GPT API to generate medical SOAP forms—an essential part of initial medical record documents for all patients. Implemented using the frontend (ChatGPT API, Python Flask) and GitHub Pages for hosting.

iii. [Electric Sheep Hackathon \(Mobility and Big Data\)](#) - Summer 23

Collaborated with Japanese university students to create an AR App with Flutter that Toyota sponsors. Utilize [Luma API](#) and [Google Map API](#) for 3D models and map features. Our proposal would be reviewed outside the project and presented at Toyota HQ in Japan.

iv. [Symposium Cyberwarfare in Russia and Ukraine](#) - Spring 23

Researched on cyber-warfare I presented at research project. Worked with technology expert Kenneth Geers and mentor, Professor Alani Mayada. The research was done for 5 months, using data science to visualize cost of damage from Microsoft Digital Defense Report 2022.

v. [Google Maps Platform Hackathon](#) - Fall 22

Implemented a customized map platform as Zelda Breath of the Wild with Google Map API. Performed front-end skills such as HTML, CSS, and JavaScript.

vi. [Amazon Sustainability Data Initiative \(ASDI\) Global Hackathon](#) - Summer 22

Developed a platform to detect types of garbage from trash-containing photos using Python and Flask as web applications. Relates to the UN's SDGs with AWS to enable strong machine learning.

EXPERIENCES/INTERNS

i. [ACM Research Lab](#) - Santa Cruz, CA- Fall 23

Seeking a solution for image modification using ResNet and UNet, with a focus on a biological and medical approach to uncover relationships between genes using machine learning. Aiming to publish a research paper in the upcoming winter or spring of 2024.

ii. [Summer Internship at Tsubasa co., Ltd.](#) - Gaien Mae, Tokyo - Summer 23

Worked as a student intern to visualize athlete's health data from Garmin watch. Released Running App for [Shonan Marathon](#) in 2023, using React + Typescript, Docker on AWS EC2. In charge of the frontend, which used React + Typescript to output data passed from the backend to the screen through the API. The technologies used include authentication screen setup using AWS cognito, graph design using ApexChart, and advanced dashboard design using MUI.

iii. [Data Science Club President](#) - Costa Mesa, CA - Spring 22

Expanded the club from 5 to 30 members. The club's objectives include participating in online machine learning Kaggle challenges, presenting scientific topics, and fostering engagement within the Machine Learning community.