

Kenichi Matsuo

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EDUCATION

Washington University in St. Louis

Class of 2023

Finishing B.S. Computer Science | *McKelvey School of Engineering*

GPA: **3.65**

Relevant Coursework: Calculus of Several Variables, Differential Equations, Foundations for Higher Math

EXPERIENCE & LEADERSHIP

National Geospatial Intelligence Agency (Department of Defense)

St. Louis, MO

Software Development Intern

June 2021-August 2021

- Worked on team project converting stereoscopic satellite .NTF files to VR interactive 3D map
- Replaced DoD's "DPPDB" photogrammetry algorithm with a Python script utilizing OpenCV to generate 3D point clouds, allowing users to pick two points on .NTF image and determine distance & elevation

WashU FSAE Racing

St. Louis, MO

Brake Systems & Ergonomics Lead

August 2020 – Present

- Pitched new brake system for the 2022 FSAE racecar with greater brake torque and reduced weight
- Researched physics of braking, created 3D CAD models, and simulated brake rotor stress & thermals
- Analyzed combinations of components via theoretical calculation of torque to design brake system

WashU Investment Finance

St. Louis, MO

Health Care Sector Portfolio Manager

November 2020 – April 2021

- Created healthcare pitch and energy sector pitch team to research and develop investment plans
- Managed sector portfolio valued over \$65,000; researched into Sempra Energy as potential investment for the energy sector and created discounted cash flow model to back up findings

Projects/Misc.

Midwest Trading Competition

University of Chicago, *April 2021*

- Developed Python algorithm to trade options contract as market makers in an exchange against schools by comparing option price versus theoretical prices the algorithm derived

University of Iowa Hackathon

University of Iowa, *April 2021*

- Used the MERN stack (MongoDB, Express, React, NodeJS) & websockets in team of 2 programmers to create a webpage allowing individuals to learn trading cryptocurrency to paper trade & display past trades
- Developed the UI/UX for the website with CSS and wrote script to from websocket cryptocurrency price data to compute portfolio values of users & log previous trades into MongoDB

SKILLS & INTERESTS

Programming Languages: Java, Python, C++, C#, AVR Assembly, OpenCV

Interests: Film photography, Road Tripping, Options Trading, Watch Enthusiast

[LinkedIn](#) | [GitHub](#) | [Past Trades](#)