

Nathaniel Kainoa Chung-On Wai (He/him)

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EDUCATION

University of Massachusetts Amherst

Amherst, MA

College of Information and Computer Sciences

GPA: 3.8 (Major: 3.9)

B.S. in Computer Science and B.S in Math (Statistics and Data Science Concentration)

Candidate, May 2025

Coursework: Scalable Web Systems, Database Management, Software Engineering, Operating Systems, Machine Learning, Computer Graphics, Intro to Algorithms, Data Structures

SKILLS

- **Programming Languages:** Proficient in JavaScript, Python, C, C++, Java, R, SQL
- **Tools/Frameworks:** Proficient in Git, React, NodeJS, Express, PyTorch, RStudio, NumPy
- **Spoken and Written Languages:** Fluent in English, Spanish (Intl. Spanish Academy Diploma)

PROJECTS

<https://natkai2040.github.io/page>

QuickRead News

February - May 2023

- Collaborated in a team of six to create an app that provides a feed of AI-summarized news stories.
- Created design documents, delegated tasks, and facilitated frontend-backend team meetings as scrum coordinator
- Connected React Native frontend with AWS webserver running Node.JS and PostgreSQL database

C++ Multi-Threaded Bank

May 2023

- Applied C POSIX library to simulate simultaneous deposits, withdrawals, and transactions on a bank system.

Jazz Variational Autoencoder

May 2023

- Collaborated with classmate to design a VAE that learns from MIDI files visualized as piano rolls to generate jazz.
- Successfully implemented the design with PyTorch, generating music, and earning full marks as a final project.

Art Arrangement Web App

November 2023

- App that allows users to arrange public art onto a virtual wall, as well as share and rank different virtual walls.
- Demonstrates ability to coordinate multiple microservices including a database and a public votes service.

Class Prerequisite API

October 2023

- API that stores college courses to analyze and graph their prerequisite relationships.

WORK EXPERIENCE

UMass Student Affairs & Campus Life

March 2024-Present

Communications Assistant

Amherst, MA

- Coordinates multiple design projects, integrating supervisor feedback to ensure efficient project management.
- Creates vector art and logos representing and aligning with the desires of diverse cultural and ethnic campus groups.

Coding With Kids LLC.

July-August 2023

Instructor

Seattle, WA

- Taught eleven students core concepts of programming using a project-based curriculum over four weeks.

InterVarsity Christian Fellowship

February 2022 - Present

Planning and Leadership Team, Treasurer

Amherst, MA

- Collaborates in a multicultural team of ten to plan and run weekly meetings for a diverse club body.
- Manages financial accounts and facilitates event funding by submitting purchase requests with detailed itemized lists.

Scout Troop 254 | InterIm CDA

August 2019 - July 2020

Eagle Scout Project Leader

Seattle, WA

- Used 3D design software to design and reconstruct a public elevated deck and storage area.
- Collaborated with a professional construction consultant to approve the design.
- Fundraised 1k in donations and materials from supply stores through a flyer campaign.
- Directed eighteen volunteers in the demolition and construction, totaling one hundred manhours.