

Bryan Kongnyu

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EDUCATION

Cornell University, Ithaca | Bachelor's Degree in Information Science

Ithaca, NY

Major: Information Science | Minor: UI/UX | GPA: 3.2

May 2025

- **Relevant Coursework:** Object-Oriented Programming and Data Structures (Spring '22), App Design & Prototyping (Spring '24), Data Structures and Functional Programming (Spring '23), Data-Driven Web App (Fall '23), Rapid Prototyping & Physical Computing (Spring '24), Human-Computer Interaction (Fall '23)
- **Awards/Honors:** Certificate in Web Design 2023, Kessler Scholars

WORK EXPERIENCE

Amazon Enterprises - Amazon Kuiper

Redmond, WA

Software Engineer Intern

June 2024 - August 2024

- Designed and implemented an API for the Atlas ground service, enabling efficient querying and retrieval of satellite telemetry events.
- Integrated AWS Timestream and S3 for event data storage, optimizing historical data access for management.
- Developed comprehensive unit and integration tests with CloudWatch monitoring, to improve API performance.

Yale University - BioTechnology Lab

New Haven, CT

Research Assistant

June 2020 - May 2021

- Led a redesign of the lab's website using HTML, CSS, and JavaScript, enhancing user engagement by 20%.
- Played a key role in a team analyzing mRNA images, using Python and ImageJ, contributing to a 15% improvement in cell focal adhesion research.
- Implemented processing scripts in Python, increasing lab efficiency by reducing manual data entry time by 30%.

Cornell University - Intermediate Web Design & Programming

Ithaca, NY

Teacher's Assistant

January 2023 - present

- Assisted in teaching web design principles using PHP, contributing to improving student understanding.
- Created comprehensive lesson plans and practical exercises effectively communicating complex web design.
- Provided individualized support to students, increasing engagement and higher course satisfaction.

LEADERSHIP EXPERIENCE & ACTIVITIES

Under-represented Minorities in Computing at Cornell (URMC)

Ithaca, NY

Member

August 2021 - present

- Actively participated in Cornell's Underrepresented Minorities in Computing group, promoting diversity
- Collaborated on diverse teams to develop tech solutions and projects for problem-solving in computing

Cornell University - Communications and Collaborative Technologies Lab

Ithaca, NY

UI/UX Research Assistant

September 2023 - present

- Optimized data collection methodologies using Python and Qualtrics, enhancing research quality.
- Designed project visualizations using Figma, significantly improving the presentation of case studies.

Personal Projects

January 2022 - present

- Developed a JavaScript and VueJS app designed to support incarcerated individuals in nourishing their mental health. It offers resources focused on art, poetry, and writing, providing creative outlets to enhance well-being.
- Created a multiplayer video game similar to the popular game Ludo with 3000 lines of code using Ocaml

SKILLS & INTERESTS

Coding Languages: Java, JavaScript, HTML, Golang, Python, OCaml, R/R-studio, C/C++, React, Vue.JS, SQL, Nodes.js

Skills: problem-solving, collaboration and teamwork, adaptability, attention to detail, and time management

Spoken Languages: English, French, Spanish, and Afrikaans

Interest: Software development, frontend development, UI/UX design, Data Science, and Tech Consulting