KAI BOBCAT

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EDUCATION

Bates College - Lewiston, ME May 2024 GPA: 3.7

Bachelor of Arts, Major: Physics, Economics and Digital Computational Studies

September 2016-2020

High School Diploma, GPA: 3.74/4.00

TECHNOLOGY EXPERIENCE

Eaub Finance – Founder & Full Stack Developer

Winged Beaver Preparatory Academy, Buena Vista, CO

March 2022 - Present

- Used Diango to build a peer-to-peer banking application that allows users to save and borrow directly
- Developed a PostgreSQL relational database models, asynchronous tasks to manage clients' financial transactions
- Created a front-end web application using jQuery as well as an iPhone/android app using flutter
- Deployed my backend application by automating a CI/CD pipeline

Social Progress Imperative – *Freelance Data Analyst*

July 2021 - Nov 2021

- Analyzed giga-bytes of international trade data to create a national COVID-19 trade vulnerability index
- Programmed a statistical model in Python's Pandas that detects COVID-19-induced reduction in traded volume
- Visualized results using an interactive world map with countries being colored according to their trade risk levels

Bates College – *UX Researcher and App Coordinator, Office of Campus Life*

March 2020 - Present

- Supported launch of the Bates community events mobile application interface
- Conducted testing and focus groups to enhance the app's user experience, and improve app's content
- Analyzed data & presented findings to administration. Improved app usage by over 60% in three months

Bates Gravity and Geometry Group – Researcher

June 2020 - June 2021

• Coauthored a physics research paper exploring a geometrical alternative to Einstein's theory of general relativity

CODING PROJECTS

Scalar Field Analysis August - November 2022

• Performed numerical analysis on set of differential equations to visualize the Inflaton field

Two-Dimensional Virtual Space

December - March 2022

• Created a virtual space in python that uses Newton's laws of motion to model a set of colliding objects

CAMPUS-WIDE INVOLVEMENT

Academic Resource Center (ARC) – Tutor

August 2022 - Present

• Tutor approximately 10 students per week in subject areas of geometry, economics, and physics

Africana Club - Member September 2022 - Present

• Participate in meaningful dialogue including restorative anti-racism discussion within the local community

Bates Outing Club – *Member*

October 2021 - Present

• Participate in student-led expeditions including surfing, rock climbing, and biking

SKILLS & INTERESTS

Programming languages: Proficient with Python, JavaScript, C++, Dart, HTML/CSS, familiar with Java, VB.net

Data Analysis & Visualization: Mathematica, Excel, Pandas, NumPy, STATA, d3.js, R, GitHub

Tools and Systems: Docker, Django, Flutter, React, Electron, Heroku, AWS, Linux