

KAI BOBCAT

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EDUCATION

- Bates College** – Lewiston, ME May 2025
Bachelor of Arts, Major: Physics, Economics and Digital Computational Studies | GPA: 3.7
- Winged Beaver Preparatory Academy**, Buena Vista, CO 2021
High School Diploma | GPA: 3.74/4.00

TECHNOLOGY EXPERIENCE

- Equb Finance** – *Founder & Full Stack Developer* March 2023 - Present
- Created a peer-to-peer banking application using Django, enabling users to directly save and borrow
 - Designed and implemented PostgreSQL relational database models, managing financial transactions with asynchronous processes
 - Developed responsive web interface with jQuery and built cross-platform mobile apps (IOS/Android) using Flutter
 - Streamline backend deployment by automating a Ci/CD pipeline
- Social Progress Imperative** – *Freelance Data Analyst* July 2022 - Nov 2022
- Analyzed vast datasets on international trade to develop a COVID-19 Trade Vulnerability Index
 - Built a Python-based statistical model in Pandas to detect reduction in trade volume due to the pandemic
 - Created interactive world map, dynamically visualizing countries' trade risks through color-coded analytics
- Bates College** – *UX Researcher and App Coordinator, Office of Campus Life* March 2021 - Present
- Led user testing and focus groups to refine Bates' community events app, enhancing the user experience
 - Presented data-driven insights to college administration, driving a 60% increase in app engagement within 3 months
 - Coordinate app content updates to ensure relevance and optime user interactions
- Bates Gravity and Geometry Group** – *Researcher* June 2021 - June 2022
- Coauthored physics research paper exploring geometrical alternative to Einstein's theory of general relativity

CODING PROJECTS

- Scalar Field Analysis** August - November 2023
- Conducted numerical simulations of differential equations to visualize the behavior of the Inflation field in early university cosmology
- Two-Dimensional Virtual Space** December - March 2023
- Developed a Python-based virtual environment modeling colliding objects using Newton's laws of motion

CAMPUS INVOLVEMENT

- Academic Resource Center (ARC)** – *Tutor* August 2023 - Present
- Tutor approximately 10 students per week in subject areas of geometry, economics, and physics
- Africana Club** – *Member* September 2023 - Present
- Participate in meaningful restorative anti-racism dialogue within the local community
- Bates Outing Club** – *Member* October 2022 - Present
- Participate in student-led expeditions including surfing, rock climbing, and biking

SKILLS

Programming languages: Proficient with Python, JavaScript, C++, Dart, HTML/CSS, 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