

# Nekruz Ashrapov

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## EDUCATION

### University of Cincinnati – College of Engineering and Applied Science

Cincinnati, Ohio

*Bachelor of Science in Computer Science, Minor in Mathematics*

*Expected Graduation: May 2026*

**Organizations:** UC IEEE, UC Cryptocurrency Club, MakeUC, ACM@UC, UC AI Society, Cyber@UC

**Relevant Coursework:** Programming Languages, Discrete Structures, Data Structures, Computer Systems, Information Security & Assurance, Linear Algebra, Differential Equations, Probability & Statistics I, Python Programming (AI/DS/ML)

### Headstarter Fellowship

Long Island City, New York

*Software & AI Engineering*

*July 2024 – September 2024*

## SKILLS

**Programming Languages:** Python, Java, C++, JavaScript/TypeScript, HTML/CSS, MATLAB, VBA

**Frameworks:** Next.js, Tailwind, Sass, React.js, Node.js, Express.js, Flutter, Swift, Apache Maven, Spring Boot

**Tools & Platforms:** Git, GitHub, Firebase, MongoDB, Kubernetes, Docker, AWS EC2, S3

## EXPERIENCE

### Kautz-Uible Economics Institute

Cincinnati, Ohio

*Web3 & Crypto Economics Researcher*

*August 2024 – Present*

- Analyzed blockchain data for **107+** members to assess participation levels, contributing to a reputation-based voting system used in elections
- Leveraged crypto-economic principles to develop a blockchain governance model, advancing decision-making and research efficiency by **5%**
- Architected **6** smart contracts to automate voting rights allocation, reducing administrative work by **14%** and streamlining governance processes
- Collaborated with cross-functional teams to optimize protocols, improving system efficiency and involvement in research projects

### JPMorganChase

Columbus, Ohio

*Software Engineer Intern*

*June 2024 – August 2024*

- Engineered an inclusive registration platform using **Java** (Spring Boot), embedding accessibility features that enhanced user experience by **27%**
- Designed a user interface using **React.js** and **TypeScript**, safeguarding client information, culminating in a **6%** enhancement in cybersecurity
- Directed **CI/CD** processes by effectively communicating progress to **7** stakeholders, ensuring better data security through automated testing
- Deployed applications to **Infrastructure Net** using **Kubernetes** and **Docker**, reducing incidents by **11%**, and ensuring scalable deployments

### University of Cincinnati

Cincinnati, Ohio

*Math & English Tutor*

*May 2024 – August 2024*

- Advised over **9** elementary school foreign students in reading and math, championing diversity and inclusion within the community
- Tailored **14** lesson plans and materials to address individual learning needs, resulting in a **23%** increase in average quiz scores
- Fostered collaboration among the students from minority backgrounds leading to a **18%** improvement in reading and writing comprehension
- Interpreted school documents and communications, augmenting inclusivity and accessibility for parents and community

## SELECTED PROJECTS

**Chatbot AI** | TypeScript, React.js, OpenAI, Next.js, Tailwind, AWS EC2

*April 2024 – August 2024*

- Accomplished a **95%** increase in deployment efficiency by developing and deploying a multi-level AI chatbot application on **AWS EC2** servers
- Elevated user satisfaction by **8%** through the integration of advanced features like a real-time feedback mechanism algorithm

**Inventory Management** | JavaScript, React.js, Firebase, Next.js, Tailwind, Material UI

*February 2024 – August 2024*

- Executed real-time inventory management to handle over **112** item transactions, including searching functionalities
- Crafted an accessible user interface, enhancing accessibility by **21%** including individuals with diverse abilities

**Calorie Tracker** | C++, Flutter, Dart, Swift, iTerm2, iOS

*April 2024 – May 2024*

- Equipped users with tools to track their calorie intake and compare calorie content of **+500** nutritious foods
- Empowered users to achieve a **10%** improvement in their wellness goals through a recommendation algorithm, promoting healthier eating habits

## LEADERSHIP & EXTRACURRICULARS

### UC Institute of Electrical and Electronics Engineers

Cincinnati, Ohio

*Lead Web Developer*

*April 2024 – Present*

- Developed a Next.js web application with a new Research Journal section connecting **4** departments and increasing collaboration by **13%**
- Contributed to code reviews and brainstormed design requirements, achieving a **7%** increase in website performance and scalability

### MakeUC (Hackathon)

Cincinnati, Ohio

*Technical Team Lead*

*May 2024 – Present*

- Led a team of **5** developers, coordinating tasks and timelines to meet project milestones acquiring over **210** participants in the Hackathon
- Refined and designed a web application for the Hackathon, producing a **19%** increase in participant registrations

### UC Cryptocurrency Club

Cincinnati, Ohio

*Membership Chair*

*March 2024 – Present*

- Conducted social events including “decentralized game nights”, generating a **33%** increase in club attendance and member engagement
- Collaborated with **3** Executive Board members to interview club members, contributing to a **15%** enhancement in overall member satisfaction