

# Nicholas Osaka

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## Summary

I'm an undergraduate and early-entry master's Computer Science student at UNC Charlotte studying artificial intelligence. My research interests include computer vision, computational imaging, physical sensing via novel imagery techniques, and natural language processing. With my double major in Philosophy focusing on Ethics and Applied Philosophy, I'm prepared to approach complex issues in emerging technologies.

## Education

### University of North Carolina at Charlotte

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Charlotte, NC

Graduation: May 2022

- Cumulative GPA: 4.0
- Concentration: Artificial Intelligence
- Minor: Mathematics

### University of North Carolina at Charlotte

BACHELOR OF ARTS IN PHILOSOPHY

Charlotte, NC

Graduation: May 2022

- Cumulative GPA: 4.0
- Emphasis on Ethics and Applied Philosophy, with a focus on issues concerning Artificial Intelligence

## Skills

**Programming Languages** Python, Java, Kotlin, C++, Java/TypeScript, Rust, HTML/CSS

**Frameworks and libraries** Android Jetpack, SwiftUI, Tensorflow, PyTorch, Scikit-learn, React, PyTest, JUnit

**Software Tools and Skills** Git, BASH, Linux, Docker, Agile/Scrum, Continuous Integration, Test Driven Development, LaTeX

## Academic Experience

### Teaching Assistant for Intro to Natural Language Processing

UNC CHARLOTTE DEPARTMENT OF COMPUTER SCIENCE

Charlotte, NC

August 2021 - Present

- Working to ensure high quality course experience for students through supplemental review sessions.
- Proactively analyzing student feedback throughout course to inform professor of issues before they arise.
- Hold weekly office hours and tutoring sessions for students.

### Teaching Assistant for Software Engineering

UNC CHARLOTTE DEPARTMENT OF COMPUTER SCIENCE

Charlotte, NC

August 2020 - May 2021

- Acted as lead TA for a team of 3 other TAs.
- Worked collaboratively to create new lab elements to keep course materials updated.
- Proactively analyzed course statistics to provide information to drive course material decisions.
- Held weekly office hours and tutoring sessions for students.

### Teaching Assistant for Intro to Computer Science I

UNC CHARLOTTE DEPARTMENT OF COMPUTER SCIENCE

Charlotte, NC

January 2019 - May 2020

- Led weekly lab instruction for over 30 students.
- Designed demonstrative code and interactive learning elements to facilitate active learning.
- Held weekly office hours and tutoring sessions for students.

## Industry Experience

### Technology & Data Intern — Leadership Development Program

THE HARTFORD

Hartford, CT

May 2021 - August 2021

- Interned remotely in the Leadership Development Program Ops, Tech, Data & Analytics track.
- Built a portfolio management intake tool for the Enterprise Data Office estimated to save over \$30k a year with three other interns.
- Led multiple meetings with different teams in order to identify best approach for architecture, deployment, and access control.
- Developed teamworking and leadership skills while working in a remote environment.
- Application included Node.js front and back ends, with an Express.js RESTful API layer which manages data exchange to database.
- Analytics were integrated using Tableau for a Director to identify blockers and advance business initiatives.

## Motion Graphic Designer

THE LITTLEFIELD COMPANY

Charlotte, NC  
April 2018 - May 2020

- Designed motion graphic content for projects requiring displays of complex data.
- Translated clients quantitative needs into creative goals for projects.
- Interacted with clients to deliver final design under anticipated deadlines.
- Designed project asset organizational scheme for use in all company projects with motion graphics.

## Videographer & Editor

YOUNG ENGINEERS OF TODAY SUMMER CAMPS

Charlotte, NC  
June 2017 - July 2017

- Filmed and documented multiple camp activities for camps during the day, and edited simple videos for promotional purposes.
- Gained understanding of asset management and project workflow. Used Adobe Premiere Pro for all projects.

## Research

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### NSF REU Research Project — Community Oversight for Privacy and Security

UNC CHARLOTTE, CO-OPS PROJECT — DR. HEATHER LIPFORD

Charlotte, NC  
May 2020 - August 2020

- Designed and developed an Android mobile application with research intent.
- Implemented modern Android development practices with MVVM architecture and NoSQL databases.
- Participated in weekly meetings to discuss research objectives and create solutions to challenging obstacles.
- Developed experience in Android, Kotlin, Firebase, and Room.

### Undergraduate Research — Augmented Reality and Machine Learning for Medical Use

UNC CHARLOTTE, AUTONOMOUS INTELLIGENT WIRELESS NETWORKED SYSTEMS LABORATORY — DR. PU WANG

Charlotte, NC  
December 2019 - May 2020

- Designed system for use in critical professions such as the medical industry.
- Utilized EPSON MOVERIO smart glasses in conjunction with Tensorflow Lite and other related technologies for user-inspired research in possible solutions for cognitive overload in error-critical professions.

## Projects

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### Campaign Website and IT Services Migration

THE COMMITTEE TO ELECT KEN MCCOOL

Charlotte, NC  
July 2021 - August 2021

- Volunteered to create new campaign website and migrate IT services to new provider.
- Implemented website using server-side static generation with headless CMS to enable reliable delivery on mobile devices for press releases and other campaign content.
- Managed roll-over to Google Workspace environment and handled enrollment in multi-factor authentication processes.
- Technologies used: Next.js, Vercel Hosting, Sanity CMS, Typescript, and Google Workspace.

## Professional Affiliations

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### Secretary

AMNESTY INTERNATIONAL AT UNC CHARLOTTE

Charlotte, NC  
August 2021 - Present

- Organizing internal documents and keeping detailed records of organization activities.
- Coordinating between other officers with respect to needs and solutions.
- Create detailed meeting minutes for future reference.

### President

CLUB FOR ARTIFICIAL INTELLIGENCE RESEARCH

Charlotte, NC  
September 2021 - Present

- Leading academic-oriented student organization with over 100 registered members.
- Re-imagining organization initiatives and goals.
- Integrating student organization with various academic organizations associated with UNC Charlotte.

### Member

AMERICAN SOCIETY FOR ENGINEERING EDUCATION

November 2020 - Present

- Member in good standing of the American Society for Engineering Education - Equity, Culture & Social Justice in Education Division.
- Receives weekly organizational notices regarding conferences and papers.
- Kept up to date on contemporary methods for STEM education that fosters equitable learning environments.

### Member

SOCIETY FOR PHENOMENOLOGY AND EXISTENTIAL PHILOSOPHY

September 2021 - Present

- Member in good standing of the Society for Phenomenology and Existential Philosophy.
- Attended SPEP 2021 conference, where I listened to sessions about contemporary philosophical research.
- Kept up to date on contemporary philosophical issues that impact the world around us.

## Certifications

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2021	<b>Engineering: Responsible Conduct of Research</b> , Credential ID 41647235	<i>CITI Program</i>
2021	<b>Social and Behavioral Sciences: Responsible Conduct of Research</b> , Credential ID 41647234	<i>CITI Program</i>
2020	<b>IRB Members: Basic Course</b> , Credential ID 38222534	<i>CITI Program</i>

## Honors

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2018-2021	<b>Chancellor’s List</b> , Awarded for earning above 3.8 GPA	<i>UNC Charlotte</i>
2020	<b>Atkins Library Undergraduate Research Award</b> , Office of Undergraduate Research	<i>UNC Charlotte</i>
2019	<b>Student Marshal</b> , Selected based on academic performance	<i>UNC Charlotte</i>
2019	<b>Phi Kappa Phi</b> , Honor society member	<i>UNC Charlotte</i>