

# Nicholas Osaka

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## Education

### University of North Carolina at Charlotte

MASTER OF SCIENCE IN COMPUTER SCIENCE — EARLY ENTRY

BACHELOR OF SCIENCE IN COMPUTER SCIENCE WITH HONORS

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

Charlotte, NC

Graduation: May 2022

Graduation: May 2021

## Skills

**Programming Languages** Java, C++, Python, JavaScript (ES6+), Rust, Kotlin, HTML/CSS, LaTeX

**Software Tools and Skills** Git, BASH, Vim, Linux, JUnit, Docker, Agile/Scrum, Continuous Integration/Continuous Development (CI/CD)  
REST API, Test Driven Development, Unit Testing, Object Oriented Programming

## Work Experience

### Teaching Assistant

UNC CHARLOTTE DEPARTMENT OF COMPUTER SCIENCE

- Leading weekly lab instruction for 40 students in order to facilitate active learning.
- Conducting weekly one-on-one tutoring sessions with students in order to provide an excellent learning environment.
- Assisting with lecture of over 100 students, supervising and encouraging discussions on course-related content between students.
- Designing demonstrative code and interactive learning elements for students to understand object-oriented programming.

Charlotte, NC

January 2019 - Present

### Motion Graphic Designer

THE LITTLEFIELD COMPANY

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

Charlotte, NC

April 2018 - Present

## Research and Projects

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

UNC CHARLOTTE, WIRELESS NETWORK AND SENSING LABORATORY — DR. PU WANG

- Design and implement system for use in critical professions such as the medical industry.
- Utilizing 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.

Charlotte, NC

Dec. 2019 - Current

### Project — “Integrity” – A Command Line Application

CS ACADEMIC INTEGRITY VALIDATION SYSTEM

- Developing command line application in the Rust language for use in academic institutions to analyze cases of academic dishonesty.
- Currently reading academic publications for algorithms and exercising implementation from mathematical models.
- Designed for performance and memory safety in order to process large quantities of submissions quickly.

## Honors

**Chancellors List — UNC Charlotte** All Semesters

**Student Marshal — UNC Charlotte** Fall 2019 - Selected based on academic performance

## Relevant Coursework

**Computer Science** Data Structures and Algorithms, Operating Systems & Networking, Software Engineering, Intro to Artificial Intelligence, Mobile Application Development, Digital Image Processing

**Mathematics** Calculus I & II, Linear Algebra, Statistics and Probability

**Philosophy** Ethical Theory, Deductive Logic