

# Nicholas Garza

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## Experience

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### Microsoft

Redmond, WA

*Software Engineer - Xbox Graphics*

August 2020 - Present

- Supporting high-value graphical features on Xbox such as high frame rate gameplay and variable refresh rate
- Improving game runtime performance from APIs to the GPU command processor for optimized hardware ops
- Driving feature parity between the Xbox Series X and Xbox One graphics drivers for cross-platform development

### Medtronic

Northridge, CA

*Software Engineer Intern*

May 2019 - August 2019

- Developed automated testing framework in Java for the leading Diabetes insulin pump product
- Integrated a cloud based service in Microsoft Azure with company wide functional testing platform
- Automated display of unit testing results and metadata for Android/iOS mobile app crash reporting

### Johns Hopkins Computer Science Department

Baltimore, MD

*Head Teaching Assistant*

January 2019 - May 2020

- Developed automated testing framework in Java for the leading Diabetes insulin pump product
- Lead team of course assistants to set learning goals for introductory programming course

### University of Virginia

Charlottesville, VA

*Systems Bioengineering Research Intern*

May 2018 - August 2018

- Analyzed terabytes of human genomic data in R to correlate inflammatory cell response with coronary artery diseases
- Developed R package and C++ workflows for filtering and sorting gene expression types
- Accepted to present at 2018 BMES conference in Atlanta, GA and 2018 REUS conference in Alexandria, VA

### UT Health San Antonio

San Antonio, TX

*Research Intern*

May 2017 - August 2017

- Analyzed terabytes of human genomic data in R to correlate inflammatory cell response with coronary artery diseases
- Developed and documented Python algorithms for locating base-pair overlap for use in later lab studies
- Published work in *Genome Medicine* as 2nd author

## Technical Skills

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### Programming Languages

Python, C/C++, Java, C#, R

### Tools/Frameworks

Git, DirectX, \*nix, SQL, Windbg, Matlab, JUnit

## Education

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### Johns Hopkins University

Baltimore, MD

*B.S. BIOMEDICAL ENGINEERING, B.S. COMPUTER SCIENCE*

August 2016 - May 2020

- Honors: CS Honors Graduate, Dean's List, UPE Honors Society, Hopkins Academic Success Award
- Campus Involvement: Alpha Phi Omega Service Fraternity, MedHacks, Biomedical Design Team, Timp Lab
- Relevant Coursework: Data Structures, Algorithms, Parallel Programming, Artificial Intelligence, Databases, Human Computer Interaction, User Interfaces and Mobile Applications

