

JOSUE ARREAGA

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EDUCATION

Bachelors in Computer Science

May 2025

Florida International University; Miami, Florida

- Current GPA: 3.9

Associate of Arts In Mathematics

June 2020

Miami Dade College; Miami, Florida

- Highest Honors Graduate

WORK EXPERIENCE

Mathematics Tutor

March 2019 - Present

Miami Dade College Ernesto Padron Campus, Think Wise Tutoring, Educational Services of Miami; Miami, Florida

- Facilitated learning of students on Calculus 1-3, Differential Equations, Discrete Mathematics, Linear Algebra, Precalculus, Trigonometry, and more
- Guided students of various ages, needs and capacities on one-on-one tutoring sessions through rigorous challenges, specifically mathematics

Teacher Assistant

March 2019 - May 2020

Miami Dade College Ernesto Padron Campus; Miami, Florida

- Led in-class learning for Calculus 1 - 2, Precalculus, and Trigonometry at Miami Dade College
- Hosted Peer-Led Team Learning (PLTL) for Trigonometry, Pre-calculus and Calculus three times a week
- Summarized and co-authored three booklets for Calculus 1 with faculty professor Willian Neris

Research Experience

September 2019 - December 2019

Miami Dade College Kendall Campus; Miami, Florida

- Researched alongside Dr. Lourdes Gonzalez and Dr. Nelson De La Rosa on a data-gathering project for singular value decomposition. Cleaned, normalized, and tokenized raw data from over 100 hotel reviews to find latent variable patterns

PROJECTS

- Programmed old-school arcade games with coin systems, character shops, enemies, bullets, and more (Unity)
- Coded quiz apps, calculators, unit converters, tip applications, and more (Kotlin)
- Constructed a multiplayer chess game from scratch with 100% original code (Java)
- Created Calculus booklets to address first-time Calculus takers' 30% failure rate (Latex)

RELEVANT TECHNICAL COURSEWORK

- Programming One, Programming 2, Data Structures, Discrete Math, Graph Theory Calculus 1 - 3, Differential Equations, Linear Algebra, Trigonometry, Statistics for CS

SKILLS AND STRENGTHS

- **Coding Languages:** Java, C++, C#, Python, CSS, HTML, JavaScript, Kotlin
- **Certifications:** Game Development 2-D/3-D (Unity), Mobile android developer (ongoing, Kotlin)

LEADERSHIP

- **Recognitions:** Stem - Mia, Phi Theta Kappa (PTK), and Frederick Douglas Susan B, scholar
- **Professional Development:** Spoke for Miami Dade College at PLTL National Summit Indianapolis 2019
- **Activities:** Founder of Mu Alpha Theta (Math Society) at Miami Dade College, Upsilon Pi Epsilon member, Google Developer Student Club Member