

Ivan Mota-Aguilar

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Education

- **The University of Texas at El Paso (UTEP)**
- Bachelor of Science in Computer Science
- Expected Graduation: Dec 2020
- Cumulative GPA: 3.71/4.0 - Major GPA: 3.91/4.0

Work Experience

Instructional Assistant | The University of Texas at El Paso | AUG 2019 – DEC 2019 | EL PASO, TX

- Assisted the upper level courses Design and Implementation of Programming Languages and Advanced Object-Oriented Programming courses by providing assistance to students in class, homework and coding assignments in addition to office hours and grading

Software Engineer Intern | DISH Network | MAY 2019 – AUG 2019 | EL PASO, TX

- Worked with the manufacturing IT team to enhance and automate the state of the manufacturing performance and efficiency metrics calculation by 83.3% by developing a full-stack web application that is now integrated into their internal network (C#, ASP.NET, JavaScript, jQuery, Bootstrap 4, HTML, CSS, SQL)

Instructor | Kidz Tech - Professional and Public Programs, UTEP | MAY 2018 – AUG 2018 | EL PASO, TX

- Conducted a 3-week course on web development and fundamentals of programming to middle school students
- Developed and implemented daily lesson plans on JavaScript, HTML and CSS
- Conducted 8 one-week courses on programming and fundamentals of engineering, Virtual reality, robotics, game development in Unity and artificial intelligence to elementary and middle school students (16 students per class)

Personal Projects

Web Developer | JUNE 2018 – PRESENT

- Developed a personal website to showcase personal projects (HTML, CSS, JavaScript)
- Developed multiple games written entirely in pure JavaScript and rendered on HTML5 canvas
- Developed a full-stack real time messaging application using Node.js, Express and Socket.io to handle real time networking between browsers (Node.js, JavaScript, jQuery, Bootstrap 4, HTML, CSS)

Co-Founder / Lead Game Developer | Angry Panda Apps | JUNE 2018 – PRESENT

- Lead a three-person team to develop and publish multiple games for mobile and web platforms using our own in-house game development framework (two games available on the google play store, one in development)
- Developed a high-performance Java framework to develop mobile video games providing easy access to audio, graphics rendering, particles, artificial intelligence and a score system without using any 3rd party libraries

Software Developer | IEEE | AUG 2017 – DEC 2017

- Collaborated with IEEE to develop an automatic registration and sign in system in java using a hash table and an Excel library to keep track of members and hours

Volunteer Work

Co - Instructor | Jefferson High School | AUG 2017 – SEP 2017 | EL PASO, TX

- Conducted a two weeks course on Python and fundamentals of programming in a three-person team for 20 students

Relevant Courses

- Advanced Object-Oriented Programming
- Data Structures and Algorithms
- Mobile Application Development
- Secure Web-Based Systems
- Computer Architecture
- Design and Implementation of Programming Languages
- Theory of Operating Systems



Skills

- Proficient in Java, JavaScript, PHP, C#, C, Python, CSS, HTML, SQL
- Working knowledge of Ruby, Go, C++
- Fluent in English and Spanish
- Problem solving, Leadership, Teamwork, Communication

Website:
ivanmtta.github.io