

# Norman Mach

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## Education

**California State Polytechnic University, Pomona**

**May 2020**

B.S. Computer Information Systems, Applications Development

## Academic Projects

### 2D Endless Run Game for Mobile

**July 2018 - August 2018**

*Solo Project*

- Built an 2D endless run game by using Unity Game Engine and C#.
- Recruited 10 beta testers to discover major bugs and functionality errors to help improve the game.
- Developed an object generator to infinitely spawn platforms ahead of the player.
- Integrated an object destroyer to remove platforms behind the player to reduce memory usage.

### Bank Application

**June 2018 - July 2018**

*CIS 304 – Intermediate Java Programming for Business*

- Constructed an application that functions like a bank by using Java in NetBeans.
- Devised a function to extract formatted data from a text file and store using various data structures.
- Created features that allow users to withdraw and deposit from their accounts, and transfer funds to other accounts within the system.
- Designed graphical user interface system with NetBeans built-in JFrame to access implemented features.

### Virtual Servers

**March 2018 - June 2018**

*CIS 307 - Business Telecommunications*

- Created a virtual network using VMware and Untangled as a router.
- Deployed a Linux server using CentOS 7 to host a private Minecraft Server.
- Deployed a Windows Domain using Windows Server 2016 and enabled Remote Desktop Connection.

### 3D Ocean Simulation

**March 2018**

*Hackathon / Hacktech*

- Contributed to building an immersive ocean environment simulator using Unity Game Engine with a team of 3.
- Implemented the main menu user interface to navigate into the game.
- Designed 3D models of shark and fish using Blender 3D Modeler.

## Club Affiliations

**MISSA (Management Information Systems Student Association)**

**September 2018 - Current**

*Member / Volunteer*

- Regularly attend club events and volunteer for club projects.

## Work Experience

**Chipotle, Montclair, CA**

**August 2017 - February 2018**

*Crew Member*

- Collaborated with a team of 7 per shift to create a clean and inviting environment for guests.
- Delivered quality customer service by quickly and precisely fulfilling requests.
- Established a positive work culture by motivating and encouraging peers, and improved team efficiency by teaching new team members techniques to speed up processes.