ROGER **VILLANUEVA**

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EDUCATION

Texas A&M University – College Station, TX
Bachelor of Science in Computer Science, Minor in Art May 2018
Texas A&M International University – Laredo, TX Sept. 2013 – May 2014

SKILLS AND INTERESTS

Programming – C++, Java, C, C#, Ruby, JavaScript, Swift, Python
Web Development – HTML, CSS, Spring Framework, Thymeleaf, Ruby on Rails, React, Bootstrap, jQuery
Mobile Development – Android, iOS
Languages – Speak, read, and write Spanish fluently (native)
Art/Design - Photoshop, Illustrator, Graphic Design, Digital Painting, 3D Modeling (Blender)
Other – Systems programming (Windows and Linux), Network programming, Graphics programming (OpenGL), Multithreaded programming, Linux, SQL, MySQL, PostgreSQL, Git, AWS, REST

EXPERIENCE

(Current) **Full Stack Software Developer at Open Sky Software, Inc.** Dec. 2018 - Present

- Developed Android application for Zebra TC8000 scanner that uploads scans to a server for quick and efficient inventory management.
- Developed Firebase application that alerts Open Sky software developers via phone when a production server reaches critical/failed state. Since development, it has enabled Open Sky to respond to such events within minutes without client interaction.
- Worked on a variety of Java-based web applications related to accounting, payroll, and inventory management.

Technologies used: Java, HTML/CSS, JavaScript, jQuery, Android

Six Feet Above (Personal game project) Sept. 2016

- Open-world 2.5D RPG set in a Day of the Dead-themed environment
- Designed many personal software tools for quest design, items, spells, characters
- Procedural generation is everywhere - with procedurally generated side-quests, items, characters, and dungeons/alternate realities
- Seamless, transition-less design of open world calls for interesting algorithms to split up the world into chunks and blocks that constantly go in and out of memory

Technologies used: C#, Unity3D, Photoshop, Blender

Vintage Logistics, Inc. Website and Mobile App May. 2018 – Oct. 2018

- Designed website for Vintage Logistics, Inc.
- Developed website user login and shipment tracking system for customers
- Developed Android and iOS application for customer shipment tracking and shipment status notifications

Technologies used: HTML/CSS, Bootstrap, JavaScript, jQuery, Android (Java), iOS (Swift)

American Red Cross Hurricane Response Tool (Senior Capstone Project) Jan. 2018 – May 2018

- Converted ARC Disaster Relief standard 120-hour hurricane response timeline into a user-friendly Android and iOS app designed for American Red Cross Disaster Relief
- App behaves as a list of tasks divided by timeline phases, each with their own respective landfall countdown timer
- Provides task reminders based on user-defined hurricane variables (such as landfall time, airport closing times, etc.)

Technologies used: Android (Java), iOS (Swift)

Veterans Airlift Command Website Redesign (Software Engineering Course Project) Jan. 2018 – May 2018

- Built a foundation for a Ruby on Rails-powered website for Veterans Airlift Command
- Designed PostgreSQL database for volunteer, pilot, veteran, and donation data
- New features such as a calendar for scheduled flights, admin system to mass-email and fully manage database
- Project and repository passed over to new team to complete since end of course

Technologies used: HTML/CSS, JavaScript, Bootstrap, jQuery, Ruby on Rails, PostgreSQL

Texas A&M University Course Search Jun. 2016 - Jun. 2016

- Desktop application that serves as a new take on viewing Texas A&M University's course database
- Texas A&M University website has a static folder-like structure with no filtering capabilities, while this application returns filtered results based on user-inputted fields (such as department, course number, professor, times, room number)
- Has new feature of viewing when certain rooms are occupied (useful for scheduling meetings in empty rooms)

Technologies used: Java, JavaFX, JDBC, MySQL