Alex Saalberg

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Mission Vieio, CA

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EDUCATION		
California Polytechnic State University - San Luis Obispo, CA		June 2018
Bachelor of Science	: Computer Science, Minor : German	
SKILLS		
☐ Languages: Java, C+☐ Tools: Windows, mac	OS, Linux Xcode, Tmux, Vim, GDB, G	it
	Python, Bash or tmux (terminal multiplexer) using libtr oen a personal note-file based on the cu	",
Designed custom	C, UDP am server/client project for downloading layer 4 protocol for transmitting data us r-control (ARQ) for reliable data transmi	ing POSIX Sockets
Base-ic Data	Scala, Spark MLB pitch type on hitter performance u	2017 using distributed computing

GAME PROJECTS

ARM Emulator

Game of Stones

C++, GLSL, CMAKE

2018

□ Released a 3D Voxel-Terrain, "Colony Management" video game prototype

C, ASM(ARM) □ Implemented logic of ARM Thumb-Mode assembly instructions for virtual machine

☐ Created a custom OpenGL 'Voxel' Engine using PolyVox and BulletPhysics libraries

Helico-opter

C++, GLSL, CMAKE

2018

- □ Released a co-operative side-scrolling 'arcade' video game
- □ Collaborated on a 6 person graphics project over the course of 10 weeks
- □ Designed a custom 3D C++ OpenGL Engine using GLFW and GLAD
- □ Implemented a semi-fixed timestep with implicit euler integration and interpolation

Dead Giveaway

Java, Jswing, Junit, Mockito

2016

- □ Released a turn-based networked card game (rules based on Clue the Card Game)
- Managed a 6 person software engineering team for 6-months
- □ Developed a GUI using Java Swing, and a network protocol using Java.net
- Contributed to full unit test coverage using the JUnit and Mockito frameworks

EXPERIENCE

World Elite Gymnastics - Rancho Santa Margarita, CA

2010-2013

Front Desk / Computer Support

- ☐ Advised and enrolled hundreds of clients into gymnastic courses
- Maintained computer systems required for daily business operations