

Languages



- JavaScript
- Python
- Java
- HTML / CSS

Software



Visual Studio, Unity, Git, Blender, Maya, Photoshop

School



UC Santa Cruz B.S. Computer Science: Computer Game Design

Univ. College Cork Semester Abroad in Ireland

Zachary A. Petersen

(650) 272-0714 ■ zacharypetersen1@gmail.com ■ www.ZachPetersenDev.com www.linkedin.com/in/zachary-petersen www.github.com/zacharypetersen1



Projects

Flora (PC 3D Adventure Video Game) - Project Lead

(September 2016 - June 2017) - 9 Programmers, 3 Musicians, 2 Artists - playflora.com

- o Oversee engineering, plan weekly goals to meet deadlines. Break down tasks and delegate to team members.
- Build material and post process shaders to get vibrant cel shaded style.
- Build core gameplay mechanics like player controller, camera, abilities.
- Design/Create game's webpage and setup website's server.
- Model, rig, and animate the characters for the game.

Picar.io (Web Multiplayer Video Game) - Programmer

(December 2016) - 4 Programmers - picariogame.com

- Build Python server that updates clients.
- o Implement spatial hashing optimization to reduce amount of info needed to update each client per tick.
- Implement seamless add/drop player functionality.

High Frequency Trading (Web Based Economics Experiment) - Programmer (January 2016 - December 2016) - 5 Programmers, 3 Econ Professors

- o Build simulated stock market with interactive web page interface for subjects to use.
- o Write data visualization module to display market status to subjects.
- Incorporate websockets in clients to communicate with remote market using NASDAQ OUCH protocol.



Positions

Founder - The Game Bakery

(December 2016 - June 2017)

- o Indie game studio formed in Santa Cruz for the creation of "Flora."
- o Interview/Recruit programmers, musicians, and artists.
- Facilitate the flow of ideas between team members, run design meetings and handle cross discipline communication.

Programmer - LEEPS Economics Lab

(March 2015 - December 2016)

- Write client side of browser-based economic experiments.
- Mentor two newly hired programmers.