

Jarett Gross

jarett@wustl.edu

jarettgross.me

(516) 644-3097

EDUCATION

Washington University in St. Louis – GPA 3.89/4.00

Bachelor of Science – Computer Science

Second Major in Mathematics (Statistics and Probability)

Dean's List (all semesters)

Relevant Coursework

Algorithms and Data Structures

Computer Graphics

Video Game Programming

Probability

EXPERIENCE

Amazon – Software Development Engineer (March 2018 – Present)

Amazon – Software Development Engineer Intern (May 2017 – August 2017)

Developed a back-end service in Java and a web interface with Angular 2 and Typescript to easily debug customer-reported issues as part of the Content Access Authority team of Amazon Video.

Washington University in St. Louis – Head Teaching Assistant (August 2017 – December 2017)

- Object-Oriented Software Development, CSE 332

Managed 15 teaching assistants; scheduled office hours and grading. Helped students understand coursework in-class and at weekly office hours.

Washington University in St. Louis – Teaching Assistant (Spring 2016 – Fall 2017)

- Computer Vision (CSE 559)
- Database Management Systems (CSE 530)
- Mobile Application Development (CSE 438)
- Object-Oriented Software Development (CSE 332)

Mentored students during weekly office hours to help them understand coursework; graded student work.

Freelance Web Developer

Designed and developed websites for clients using HTML and CSS.

PROJECTS

Procedural Planet Generator (Winter 2017)

Created a procedural planet generator in with WebGL and Three.js. Planets are procedurally generated using pseudorandom noise to alter the terrain of the planet. Planets can be formed with triangles or with hexagons and pentagons.

Tunnel (Spring 2016)

Developed a procedurally generated, networked multiplayer, first-person shooter for Windows/Mac/Linux with Unity3D on a team of five. The game terrain is built of meshes created with a combination of regular noise and Perlin noise and the marching cubes algorithm. The network code utilizes Unity's scripting API and allows players to run a local server on their machine for others to connect to.

Boiler Escape (Summer 2016)

Developed a 2D puzzle-platformer with Unity. Features a water particle system as the main puzzle and platforming element of the game. The water interacts with various platforming elements to create puzzles.

PlayShip (Summer 2016)

Developed PlayShip, a pay-it-forward gaming community, where users supply games to pass on to other users. Built from scratch with a Node.js, Express, and MongoDB backend, the site tracks games and users, displaying which games can go to which users. Information about games is pulled from an API and users are notified by email when they have incoming games or an upcoming due date.

SKILLS

Programming

- Java – Fluent, 6 years
- Python – Proficient, 4 years
- C++ – Proficient, 4 years
- HTML/CSS – Proficient, 4 years
- JavaScript – Proficient, 4 years
- C# – Proficient, 4 years

Platforms & Tools

- Microsoft Windows
- OS X
- Unreal Engine
- Unity
- AngularJS/Angular 2
- Matlab