Simone Guggiari

Software Engineer, Gameplay Programmer, Master Computer Science ETHZ

Software Engineer with 5 years of C++ and C# software development experience. Strong 3D math skills. Extensive experience in game development, including gameplay, game engine, Al, graphics and physics programming Team player able to contribute to many areas of game development.

Developed games showcased at several exhibitions, including Gamescom 2018.

✓ simone.guggiari@gmail.com



simone-guggiari.com

in linkedin.com/in/simone-guggiari

Languages (strong experience)

Languages (basic experience)

Game Frameworks/Engines

Gameplay Systems

Libraries and API

Other

Italian

Native (C2)

German

Fluent (C1)

Unity 3D, MonoGame, XNA, SFML, Pico-8

Methodologies, Software Architecture

Architecture understanding

LANGUAGES

SKILLS

C++, C#



Los Angeles, CA

C, Java, Python, HLSL, PHP, SQL, JavaScript, Assembly, Eiffel, HTML

Character controller, camera, inventory, weapons, Al, animation

Direct3D, OpenGL, STL, Eigen, Open Dynamics Engine, Vuforia

VR, AR, PC and Console programming experience, Computer

Git, Visual Studio, Blender, Photoshop, Audacity, Office, Latex, Matlab

Linear algebra, graphics and physics related algorithms

Scrum, Agile, Design Patterns, UML, Collaborative tools

January 01 1994

EDUCATION

+1 (424) 351-5380

Master in Computer Science

ETH (Eidgenössische Technische Hochschule)

09/2017 - 09/2019

Zürich, Switzerland

Focus and Grades

- Computer Graphics (5.5/6.0)
- Game Programming (2nd pl.)
- Computer Vision (5.5/6.0)
- Probabilistic Al (6.0/6.0)
- **GPA: 5.55/6.0** (top 10%)

Bachelor in Computer Science

ETH (Eidgenössische Technische Hochschule)

09/2014 - 08/2017

Zürich, Switzerland

Selected Courses and Grades

- Algorithms (5.25/6.0)
- Visual Computing (6.0/6.0)
- Linear Algebra (5.0 /6.0)
- Computer Architecture (5.5/6.0)
- **GPA: 5.37/6.0** (top 20%)

HONORS AND AWARDS

Mathematical Kangaroo - 1st Place, Cantonal (2011 - 2013) International Math Competition - Commission of Italian Switzerland (CMSI)

Robot Programming Competition - 1st Place (2012)

Cybercamp Fribourg - FriBot

Game Programming Laboratory - 2nd Place (2018)

ETH Zürich - That Failed Bank Robbery

Physically Based Simulations - 3rd Place (2016)

ETH Zürich - Ragdoll Simulation

Selected as member of Swiss Delegation to Gamescom (2018)

ProHelvetia - That Failed Bank Robbery

Selected as member of Ludicious Business Accelerator (2019)

Ludicious - That Failed Bank Robbery

WORK EXPERIENCE

Game Technology Center

Master Thesis 🗷

10/2018 - 04/2019

Zürich. Switzerland

Thesis (grade 6.0/6.0, suggested for publication)

- Developed behavior-based adaptive procedural level generation
- Designed and developed web-based video game

Supervisors: Prof. Dr. Robert W. Sumner - Dr. Fabio Zünd

Disney Research Zürich

Bachelor Thesis 🗷

02/2017 - 08/2017

Zürich, Switzerland

Thesis (grade 5.5/6.0)

- Integrated physics simulation in C++ into Unity game engine
- Developed VR and AR tech demos for simulated characters

Making Simulated Characters Accessible in Unity

Emergent Personalized Content in Video Games

Xbox One Game (www.thatfailedbankrobbery.ch)

That Failed Bank Robbery (2018)

- 2nd place overall (ETH Game Programming Lab)

NOTABLE GAME PROJECTS

• Selected for Gamescom 2018, Swiss Delegation (ProHelvetia, Swiss Arts Council)

English

French

Proficient (C2)

Intermediate (B2)

Selected for Business Accelerator (Ludicious Game Show)

Rainforest, Inc. (2018)

- Ludum Dare 42 Jam entry (www.simone-guggiari.com/rainforest)
- 4th most played game out of 3069, placed top 100
- Selected to be showcased at Zürich Game Show

OTHER

Swiss Game Developers Association Member

Supervisors: Prof. Dr. Robert W. Sumner - Dr. Martin Guay