

Diego Galvez

Residence: Bastrop, TX

SUMMARY

Mathematician/dev in the slot machine industry with 4 years of experience creating and designing math of Class III video slot machines in the casino and mobile spaces.

SKILLS, LANGUAGES, AND TECHNOLOGIES

Mathematics and Math Design

- Exceptional level of probability and combinatorics to make calculations of slot payouts in Microsoft Excel.
- Design game rule algorithms/logic and construct math elements of slots.
- Achieve competitive and fun game balance while maintaining games within casino regulations.
- Achieve high entertainment value using mathematics.

Game Programming

- Write code mainly using C# to program game behavior.
- Track and report key game statistics via Monte Carlo simulations, such as probability distributions, frequencies of events, volatility, means and medians, etc.

Other Languages/Technologies

- Experienced with Unity, Python, PHP, Java, Matlab, and website development.
- Ability to use technologies to build complex tools, such as simulators, automation tools, etc.

EMPLOYMENT

Senior Mathematician

Feb 2020 – present

Zynga

- Owner of all slot machine math in Game of Thrones Slots Casino.
- Create competitive mobile slots math at a fast pace.
- Debug and collaborate with software engineers constantly to ensure server logic functionality.
- Monitor live casino RTP.

Mathematician II

Sep 2018 – Jan 2020

Konami Gaming

- Create competitive math of casino video slot machines.
- Write and submit math documentation to GLI.
- Collaborate with the creation of game rule ideas.
- Math creator of The Great Wilds, Bill\$ & Thrill\$, Sticky Riches Deluxe, and Majestic Moon Triple Sparkle.
- In charge of 3 enhancements of successful Konami titles, as well as 4 other new titles under development.

Various Math and Physics Teaching Jobs/Volunteering

2012 - present

UC Berkeley, Saddleback College, C2 Ed., Cal Poly Pomona, private tutoring, etc.

EDUCATION

California State Polytechnic University, Pomona

Jun 2018

- Master of Science in Mathematics (GPA: 3.93)

University of California, Berkeley

May 2016

- Bachelor of Arts in Mathematics (GPA: 3.70)