

CURRICULUM VITAE – THOM MOTT

PERSONAL INFORMATION

Thom Mott
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SKILLS

Operating systems: Linux

Programming languages: C, C++, C#, HLSL, JAVA, JavaScript, TypeScript, Python, Nix, RISC-V Assembly, Zig

Engines: Unity, Godot, Phaser, Dear ImGui

Languages: English

EDUCATION

University of California, Santa Cruz Santa Cruz, CA
Degree in Progress: Computer Science: Game Design (B.S.)
Dean's List: Fall 2024, Winter 2025, Spring 2025

June 2024-Present

Cabrillo College Aptos, CA

August 2022-August 2024

EMPLOYMENT HISTORY

- Research Assistant, SLOTHLab** UC, Santa Cruz September 2025-Present
- Worked alongside other undergrad and graduate researchers on a submission to the annual Generative Design in Minecraft (GDMC) competition.
 - Worked in Python using the Amulet Map editor, writing a system that would destroy trees that would otherwise conflict with city generation.
- Computational Media Undergrad Course Assistant** UC, Santa Cruz March 2025-Present
- Ran in-person and online office hours to aid students in upper-division Computer Science courses.
 - Graded student papers.
- Computer Science Undergrad Course Assistant** UC, Santa Cruz January 2025-Present
- Ran in-person and online office hours to aid students in upper-division Computer Science courses.
 - Maintained course tech stacks and assisted professors with course material preparation and troubleshooting.
 - Graded student papers.
- Research Assistant, SET Lab** UC, Santa Cruz September 2024-July 2025
- Contributed to a research-driven AR game focused on climate resilience education and community engagement, working alongside a postdoctoral researcher and undergraduate research assistants.
 - Developed UI components and a location-based overworld map in Unity, and provided technical guidance to team members on engine usage and development practices.
- Intern, Guardian Gamer** Los Gatos, CA June 2024-September 2024
- Built an internal admin panel for user and group management, supporting flexible lookup by multiple account identifiers and real-time modification of records, with data sourced and processed from AWS-managed databases.

PROJECTS

- Gamba Gun** Programmer, Designer June 2025-Present
- Developed a GPU-based splat rendering system enabling high-density, dynamic surface effects (e.g. fire propagation), improving visual fidelity and gameplay expressiveness.
 - Implemented a localisation system to support scalable multilingual content.
 - Contributed to refactoring and long-term maintainability of core gameplay systems in an active commercial project.
- California V2** Producer, Designer, Artist March 2020-Present
- Led production for a 6-person international team over six years on a large-scale curated map for "Unturned".
 - Designed major locations, NPC-driven quest content, and gameplay balance across survival systems.
 - Created hundreds of optimised 3D assets to support a cohesive open-world environment.
 - Organised and coordinated large-scale playtests across multiple countries and time zones.

Wang Slime Creator	November 2025
<ul style="list-style-type: none"> Implemented a fully GPU-driven slime mould simulation operating over a procedurally generated terrain. Integrated Wang tile-based world generation with live runtime updates, allowing dynamic modification of the simulation domain. Focused on performance-oriented design and parallel execution. 	
Sistor Fixor Creator	November 2025
<ul style="list-style-type: none"> Developed a digital logic puzzle game prototype in Unity within a two-day timeframe. Implemented a simplified but internally consistent logic simulation system focused on problem-solving rather than real-world electronics accuracy. Designed timed circuit-based challenges with clear input/output constraints. 	
Dungeon Generator Creator	June 2025
<ul style="list-style-type: none"> Built a performant procedural dungeon generator using a backtracking-style algorithm with weighted random selection. Designed modular room connectivity inspired by “The Binding of Isaac”. Emphasised deterministic generation and runtime efficiency. 	
StrongBadZone Programmer	February-March 2025
<ul style="list-style-type: none"> Recreated the “StrongBadZone” sequence from “Homestar Runner” using TypeScript and Phaser 3. Adapted an animation into an interactive gameplay experience while preserving the original visual style and tone. 	
Spebby’s Chess Engine Programmer	November-December 2024
<ul style="list-style-type: none"> Implemented a chess engine and AI from scratch in C++, using bitboards for efficient board representation. Developed a Negamax-based AI with heuristic evaluation, capable of real-time play to depth 5. Built a graphical frontend using Dear ImGui. 	
Booliards Programmer	April 2023
<ul style="list-style-type: none"> Contributed to a fast-paced arcade billiards game developed in Unity. Worked on game and wave design, achievements, and backend architecture. Integrated platform services including Newgrounds APIs. 	
Egg Rush Programmer	July 2021
<ul style="list-style-type: none"> Developed core gameplay systems, enemy behaviours, and upgrade mechanics for a beat’em-up game jam entry. Delivered a complete, polished experience within a three-day development window. 	
Tower of Towers Programmer	March-May 2021
<ul style="list-style-type: none"> Implemented core gameplay features and level content for a 16-bit-style platformer. Wrote localisation support and platform integration. 	
Easter Island Lead, Designer, Artist	June 2025
<ul style="list-style-type: none"> Led development an officially endorsed curated map for Unturned, featured in-game. Focused on level design, gameplay balancing, project coordination, and 3D asset creation. Supported through post-release content updates and maintenance, including bug fixes and optimisation. 	