Yiyang Chen

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EDUCATION

| EDUCATION | | |
|---|--|--|
| University of Southern California | GPA: 4.0/4.0 | Aug. 2021 – Excepted May. 2023 |
| M.S. in Computer Science (Game Development Track) | | Los Angeles, CA |
| Courses: Game Projects, Rendering, Game Design, G | Game Engine, Game Pro | oduction, Game Narrative, Algorithms |
| Co-founder of Rousong Game Club | | |
| The University of North Carolina at Chapel Hill | GPA: 3.81/4.0 | Aug. 2018 - Jun. 2021 |
| B.S. in Computer Science, B.S. in Mathematics | | Chapel Hill, NC |
| Courses: Computer Foundations, Data Structures, Ca | alculus, Linear Algebra, | , Numerical Analysis, Serious Game |
| Phi Beta Kappa, Member of Go Club | | |
| | | |
| KILLS Language: C++, C#, C, HLSL, Java, Python, HTML, C | SS Investment SOL N | |
| Web/Mobile: React (Redux), Node.js, Express, Mongo | | |
| Fools: Unity, Git, Perforce, Visual Studio, Photoshop, Ph | | |
| DOIS: Unity, Oit, Fertoree, Visual Studio, Filotoshop, Fi | Tenniele, LATEA, Myst | 2L, Jupiter Notebook, LINOX |
| XPERIENCE | | |
| Corvid Technologies | | May 2019 - Jul. 2019 |
| oftware Engineer Intern | | Mooresville, NC |
| Built a parallel (MPI) balance octree with an algor | ithm that uses a special | array that only saves important nodes |
| which saves more memory and balances faster than o | | |
| This algorithm balances the octree 10 times faster the | nan company's previous | s algorithm. |
| lairmagail Automation Tasky alogy | | Int 2017 And 2017 |
| laiyuesail Automation Technology | | Jul. 2017 – Aug. 2017 |
| oftware Engineer Intern | | Shanghai, China |
| Developed a website which allows users to input produ | | |
| Constructed the full stack of the webpage using HT | | ript, which exchanged data between |
| SQL database and webpages using AJAX, C#, and | SQL. | |
| nperial College London | | Jun. 2020 - Aug. 2020 |
| esearch Member - Advised by Prof. Lucia Specia | | Remote |
| Built NLP FFNN, CNN and RNN models with We | ord2Vec and Doc2Vec. | |
| Participated in a competition Assessing the Funnine | | dlines and ranked Top5 . |
| | | Ĩ |
| ELECTED PROJECTS (Check my personal websit | te for more projects) | |
| roject Base | | Aug. 2021 – Present |
| Constructed a self-maintained template framework | using C# that helps quid | ck deployment for any Unity project. |
| Built efficient singletons like Event System, Object | Pool, Resource Manage | er, Data Manager, and more. |
| Developed some useful templates and features like | | |
| Provided middlewares using C# to efficiently bridg | | |
| My game projects, Hooked in Space and Eye 4 Ey | e are developed based o | on this package. |
| rime Engine | | Aug 2022 Dec 2022 |
| Built some of Prime Engine's components based on | the ends have provided | Aug. 2022 – Dec.2022 |
| | the code base provided | |
| Added culling feature to the renderer using C++. | ······································ | h |
| Developed physics component using OBB collider | | |
| collision is detected and fall down according to grav | | |
| Implemented wind effect on plants using C++ and | | |
| stronger wind effect. Vertices will be influenced hea | | |
| Designed NPC routing AI using navigation mesh , | Bezier Curve and A* a | ligorithm with Maya and C++. |
| ye 4 Eye | | Aug. 2022 – Expected May. 2023 |
| Drove the programmer team in a Unity game project | ct that more than 20 stud | |
| Coded shaders like pixelization shader using HLSL | | |
| Applied and adjusted the Project Base project, prov | | |
| UI, Inventory, and bridges to Yarn Spinner and F | | |
| | | |
| looked in Space | | Jan. 2022 – May. 2022 |
| Designed and coded all the gemenlay features and | 1 1 1 1 1 | <i>au</i> |

- Designed and coded all the gameplay, features, and shaders in the game using C#.
- Managed 6 sprints with 4 milestones from preproduction to final-released by applying burndown chart and **agile software development**. All the important features and 95% of the other features are delivered on time.
- Managed communications between me, art, and audio team members by holding regular meetings and using game design macro. Kept everyone on the same pace and solved all the time conflicts to deliver features on time.