

Roy Guo

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Education	University Of California San Diego ; La Jolla, CA Bachelor in Computer Science — Summa Cum Laude Honor	09/2015-06/2019
	University Of California Berkeley ; Berkeley, CA Master in Computer Science	09/2019-06/2020
Experience	Software Engineering Intern , <i>TuSimple Technology</i> ; San Diego, CA Simulated truck movement for autonomous driving and optimized the collision detection algorithm. Built web interface for the movement simulators. Built NoSQL database for simulation results.	10/2017-03/2018
	Machine Learning Intern , <i>Microsoft Research Asia</i> ; Beijing, China Worked on Mahjong AI, researched on machine learning approaches used in information-asymmetric games, optimized the current model. Using Qt, built a game log visualizer to trace model's decision making process.	06/2017-08/2017
Projects	Front-end Lead , <i>KillStreak</i> ; Online Multiplayer Battle Arena Tools: OpenGL, Visual Studio, Github Implemented physics engine with mesh collision. Implemented mouse control for character movement. Implemented action prediction when server tick rate is lower than the frame rate. Implemented and designed the user interface. Designed game mechanics and systems, including character skills and in-game economics.	03/2019-06/2019
	Full-stack , <i>Teal</i> ; College Student Stress Manage Application Tools: MongoDB, HTML/CSS, jQuery, Sketch, Zeplin Designed the application that brings users mindfulness of stress and guide them to address the stressors. Implemented user database using MongoDB. Implemented user interfaces.	09/2018-01/2019
	Team Lead , <i>PeterBook</i> ; Secured Multiplatform Social Network Tools: Jenkins, ReactJS, Nginx, Flask, Firebase, NodeJS As the team lead, responsible for finding user needs, managing progress, and holding weekly meeting with team members. Set up GitHub hook and Jenkins as the conveyor belt for automatic testing and deployment. Implemented data encryption for all data in the private real-time chatting sessions.	03/2018-06/2018
Skills	Languages <i>Proficient:</i> Java, C++, HTML/CSS, JavaScript, Python, Unix <i>Intermediate:</i> OCaml, C, C#, MATLAB	
	Tools & Frameworks <i>Proficient:</i> GitHub, ReactJS, Flask, Nginx, Firebase, MongoDB, Microsoft Azure, Jenkins, Unity3D, Pandas, OpenGL, Visual Studio <i>Intermediate:</i> VueJS, TensorFlow, NumPy, NodeJS, jQuery, TCP/IP	