

Angela Montemayor

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EDUCATION

Stanford University <i>Master of Science in Computer Science</i>	Sep 2021 – Jun 2023 Stanford, CA
Stanford University <i>Bachelor of Science in Computer Science, Minor in Creative Writing</i>	Sep 2016 – Jun 2020 Stanford, CA

RESEARCH EXPERIENCE

Graduate Research Assistant <i>Stanford University, PI: Keith Winstein</i> <ul style="list-style-type: none">Developing Fixpoint, a functional operating system that aims to change the way customers interface with the cloudImplemented module instancing for the WebAssembly Binary Toolkit (WABT), to allow for the same Fixpoint module to be executed in parallel across different cores. Feature was contributed to the upstream projectCo-designed and implemented the Fixpoint API, and streamlined its usage of WebAssemblyDesigned and implemented the Flatware layer of Fixpoint, allowing for Fixpoint programs to make traditional POSIX system calls	Jan 2022 – Present Stanford, CA
Undergraduate Research Assistant <i>Stanford University, PI: Kayvon Fatahalian</i> <ul style="list-style-type: none">Worked on Scanner, a Video Database Management System that processes video material quickly and at scaleDeveloped a suite of benchmark performance queries for Scanner to evaluate video processing runtimes, and identified decode-bound limitations in other field benchmarksIdentified missing functionality in Scanner's autoscheduling procedure and evaluated impacts to system reliability	Jun 2019 – Mar 2020 Stanford, CA

PUBLICATIONS

Computation-Centric Networking

Yuhan Deng, Angela Montemayor, Amit Levy, and Keith Winstein. *ACM Workshop on Hot Topics in Networks*, 2022.

INDUSTRY EXPERIENCE

Software Engineer <i>Xage Security</i> <ul style="list-style-type: none">Member of the Distributed Systems team at blockchain-based IoT security startupDesigned and implemented a new API to batch transactions submitted to the blockchain ledger, significantly improving performanceDesigned and implemented a new Time Sync service which eliminated concurrency bugs and streamlined deployments	Jul 2020 – Aug 2021 Palo Alto, CA
Software Engineer Intern <i>Autodesk</i> <ul style="list-style-type: none">Member of the Forge Platform and Components teamPerformed a technical evaluation of a Multi-Factor Authentication (MFA) ServiceArchitected integration of new MFA service into current cloud services	Jun 2018 – Aug 2018 San Francisco, CA

LEADERSHIP AND SERVICE ACTIVITIES

Tutor <i>College Track</i> <ul style="list-style-type: none">Tutoring underserved, high-priority high school students in mathematics, largely in Trigonometry, Algebra II, and Pre-CalculusProviding support and guidance to high school seniors in the college admissions process	Nov 2022 – Present East Palo Alto, CA
Academic Director <i>Society of Latinx Engineers (SOLE)</i> <ul style="list-style-type: none">Facilitated weekly Study Night events in coordination with other diversity societies to provide tutoring and course resources to SOLE membersOrganized faculty dinner for SOLE members to interact with engineering faculty and secure research positions	Sep 2018 – Jun 2019 Stanford, CA