

CLAUDIA OSORIO

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EDUCATION

University of Southern California Master of Science in Computer Science	Los Angeles, CA August 2024 – May 2026
<ul style="list-style-type: none">Relevant Coursework: 3D Graphics, Game Engine Development (C++), Advanced Games Project, Multimedia Systems DesignBuilt network file streaming service with HTTP server, client-side API, and caching system for loading game assets.Implemented hot reloading pipeline using Lua C API and rolling hash algorithm for real-time script updates without application restarts.Serving as Usability Lead for Advanced Games Project team, conducting user research and creating usability reports with actionable recommendations.	
Carnegie Mellon University Bachelor of Science in Information Systems. Minors in Intelligent Environments and Sonic Arts.	Pittsburgh, PA August 2018 – May 2022

WORK EXPERIENCE

Adobe Research Research Scientist/Engineer Intern	San Francisco, CA May 2025 – October 2025
<ul style="list-style-type: none">Built MotionMate, a LLM-powered tool to help designers rapidly apply professional animated texts and motion graphics on video. MotionMate allows users to use natural language prompts to decorate a video, bridging the gap between creative vision and technical execution.Implemented multimodal analysis pipeline using TypeScript, Python, and Gemini API to enable content-aware application of professional motion graphics from 100+ Adobe templates to user videos with caption data and timestamps from a video transcription service.Conducted extensive prompt engineering to optimize video analysis, transcript text grouping, and design element extraction from professional template files.Exposed video editing APIs enabling automatic application of selected template designs to user content, generating customized files with user's video content styled with professional motion graphics.Developed UI web page for MotionMate tool; patent application in progress.	
Adobe Research Research Scientist/Engineer Intern (Patent Application Filed)	San Francisco, CA May 2024 – March 2025
<ul style="list-style-type: none">Built VoiceMate, a voice-based copilot addressing challenging VR input methods and complex UI navigation for video editing, enabling hands-free video editing through voice commands, supporting both precise instructions and vague requests.Implemented voice processing pipeline using Swift and Python with Apple SFSpeechRecognizer and Whisper API, featuring two-pass GPT-4o analysis with initial segmentation followed by intent recognition.Designed RAG pipeline to match user voice commands against database of example sentences, returning top 3 semantic matches with confidence thresholding to reduce hallucinations and provide fallback suggestions.Exposed video editing APIs enabling GPT-4o to execute actions with streamlined parameters, and conducted extensive prompt engineering to ensure reliable command interpretation.Conducted user testing that revealed need for RAG implementation to handle natural language variance.Presented VoiceMate project to mentors and product teams, contributing to patent applications.	
Twitter Software Engineer (Full-Time & Intern)	New York, NY June 2021 – February 2023
<ul style="list-style-type: none">Contributed to Twitter Platform Engineering's Dynamic Configuration systems supporting 1000s of engineers using Scala, Python, and Bash.Built automation tools and operator systems, achieving 75% time savings and eliminating reliability risks.Enhanced internal Safety Features System using Scala, JavaScript, and SQL.Authored 10 RFCs and led production issue post-mortem documentation.	