

CYNTHIA CHANG

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EDUCATION

M.S. Computer Science (with Thesis), University of Southern California 2023 - 2024
Master's Thesis: "Reconstructing 3D Reconstruction: A Graphical Taxonomy of Recent Techniques"
Courses: 3D Animation & Simulation, Deep Learning, Analysis of Algorithms, Database Systems, Robotics

B.A. Computer Science, University of California, Berkeley 2016 - 2020
Courses: Computer Graphics & Imaging, Machine Learning, Artificial Intelligence, Efficient Algorithms & Intractable Problems, Discrete Mathematics, Computer Security, Principles of Data Science
Relevant Course Project: Minecraft Water Shader

- Final group project for the graphics course. Implemented the Blinn-Phong shading model in OpenGLSL & C++, on sampled environment textures and variable light which produced efficient, playable in-game renderings of water reflections and movement.

SKILLS

Languages C/C++, C#, Python, Java, JavaScript/TypeScript, JSON, XML, HTML, CSS/SCSS, OpenGLSL, SQL, LaTeX

Technologies Git, Angular, NodeJS, RESTful services, Object-Oriented Programming, Pandas, PyTorch, CUDA, Visual Studio, VSCode, IntelliJ IDEA, Atlassian (Jira, Confluence, Bitbucket), Linux, Windows, MacOS

PROFESSIONAL EXPERIENCE

CHARLES SCHWAB & CO., INC, Remote / San Francisco, CA / Austin, TX
Specialist, Software Engineer (Fullstack) 2022 - 2023
Software Developer, Associate (Fullstack) 2020 - 2022

- Promoted within 1.5 years for: consistently exceeding performance standards; efficiently updating legacy C# RESTful API code to consume a new database service; and proactively becoming the team subject matter expert on the modernization of the firm's new internal user experience design system.
- Contributed to the successful launch of a new front-end design framework with an effective and working proof-of-concept, mentoring both onshore and offshore colleagues during key development cycles while exceeding individual contribution goals.
- Demonstrated high-level independent work, and shared senior engineer responsibilities, including: development representation in cross-functional meetings, UI design technical spec translations, real-time code fixes, feature merging, peer reviews, and production release assistance.
- Core member in both the maintenance of legacy code, and the continued modernization effort for the company's most-visited web page using Angular, HTML, and CSS/SCSS - improving the user interface experiences for over 40 million clients with over 10 unique page behavior tracks.
- Collaborated effectively with colleagues in a CI/CD Agile environment using the Atlassian suite, providing valuable developer input to business partners and increasing the clarity of technical requirements in sprint planning, which decreased development completion time by 1-2 days in sprints.

NEW STUDENT SERVICES, University of California, Berkeley, Berkeley, CA
Student Coordinator 2018 - 2019

- Increased recruitment of STEM student volunteers by 15%+ by exposing volunteer recruitment events to STEM-specific locations on campus. Surveys from newly admitted STEM students reported higher feelings of inclusion and representation in their orientation activities.
- Developed a Python script to automate grouping of 9,000+ students, reducing manual work by 95%.
- Collaborated with staff supervisor and campus partners to organize 7 off-campus excursions, designing a cohesive template for 140+ unique itineraries and serving as the liaison for all communication between venues, student leaders, and volunteers during the event week.

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| Orientation Mentor | 2018 |
| Orientation Leader | 2017 |

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| RESEARCH | M.S. Student , University of Southern California | 2023 - 2024 |
| EXPERIENCE | <i>Advisor: Prof. Saty Raghavachary</i> | |

- Research Apprentice**, University of California, Berkeley
Supervisor: Dr. Qingkai Kong

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| TEACHING | CS61A Academic Intern , University of California, Berkeley | 2018 |
| EXPERIENCE | <ul style="list-style-type: none"> Supported 50 undergraduate students during labs on Python coding assignments and understanding | |

- English Volunteer Teacher**, Overseas Community Affairs Council, Taiwan Aug 2015

- OTHER **Foreign Languages** English (*native*), Mandarin Chinese (*native*)

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