Anita Chen

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EDUCATION

University of Southern California — Los Angeles, CA
Master of Science in Computer Science, Scientists and Engineers — *Aug. 2021–May 2023*

University of California, Los Angeles — Los Angeles, CA
Bachelor of Science in Applied Mathematics with Specialization in Computing — *Sep. 2016–Sep. 2020*

EXPERIENCE

Certified Tutor — Apr. 2021–Present
PLEXUSS Unlimited Tutoring — *San Ramon, CA*
- Engage with over 100 families from various socioeconomic backgrounds to provide one-on-one tutoring
- Tutor K-12 subjects employing digital tools according to each student's needs, received 5/5 average review rating

Student Research Assistant — Jan. 2018–May 2020
UCLA JSEI Zheng Lab — *Los Angeles, CA*
- Performed protein-ligand docking to screen for small ligands out of 200k unique molecules that inhibit beta-catenin activity and formation of the Wnt transcription complex, thereby reducing Wnt target gene transcription
- Researched applying computational biology programs such as FlexX, Schrodinger Maestro, and Autodock Vina in a Linux environment and maintained the Linux workstation with its software licenses
- Presented posters at UCLA Undergraduate Research Week in 2019 and 2020 to hundreds of students and faculty
- Achieved honors including W19 BioSolveIT Scientific Chl. Top 5 Finalist, S18 D3R Grand Chl. 4-2 Participant

Student Staff — Feb. 2019–June 2019
UCLA Dining Services — *Los Angeles, CA*
- Prepared food efficiently cooperating in a sizable kitchen team while providing friendly customer service

Measuring and Assessing Patient Safety (M.A.P.S) Volunteer — Jan. 2017–Jul. 2018
UCLA Santa Monica Hospital — *Santa Monica, CA*
- Assessed healthcare professionals' compliance with health protocols set by the Joint Commission
- Shadowed 100 hours in the ER and ICU observing hand washing and PPE usage when entering isolation rooms

Office Assistant Volunteer — Jan. 2013–Sep. 2017
Lakeview Senior Center — *Irvine, CA*
- Performed 250 hours of administrative duties including answering phone calls and inputting data in Raiser's Edge

PROJECTS

Socket (Blockchain Simulation) | *C++, Sockets, VirtualBox* — Apr. 2022–May 2022
- Created a C++ blockchain simulation that transfers money, lists transactions and users, and checks user balance
- Deployed one main server, three back-end servers each hosting one block over TCP protocol, and two client servers over UDP protocol; all servers communicate with the main server via sockets

Sequence Alignment | *Java* — Apr. 2022–May 2022
- Implemented basic and efficient algorithm versions, memory usage decreased from polynomial to linear space

Guild Wars | *Python, Discord API, Google Sheets API, Heroku, Git* — Dec. 2020–June 2021
- Modified open source Python script sending data from Discord to Google Sheets; utilized by peers 400+ times

ML Catch | *JavaScript, HTML, CSS, Git* — Nov. 2019–Dec. 2019
- Developed a browser catch game using JS for game logic and HTML, CSS for styling; played by peers 100+ times

TECHNICAL SKILLS

Languages: Java, C/C++, Python, SQL, JavaScript, HTML, CSS, MATLAB
Frameworks and Libraries: Bootstrap, React, Node.js, Flask, Sockets, NumPy, Matplotlib, PyTorch
Developer Tools: Git, Linux, VS Code, Visual Studio, XCode, Anaconda, IntelliJ, Eclipse
Coursework: Algorithms, Machine Learning, Databases, Networks, Numerical Analysis, Math Modeling

ACTIVITIES

Awards: UCLA Dean's Honors List Spring 2017, ALD Honors Society Member, MCM 2020 Successful Participant