

# Victor Xue

4220 Suzanne Drive • Palo Alto, CA 94306 • 650-862-3102 • victorxue007@gmail.com

## EDUCATION

---

### Georgia Institute of Technology

Expected Graduation: August 2023

*Master of Science, Computer Science (OMSCS)*

GPA: 4.00

Relevant Coursework: Artificial Intelligence for Robotics, Graduate Intro to Operating Systems

### University of California - Los Angeles

June 2019

*Bachelor of Science, Chemical Engineering*

GPA: 3.79

Professional Affiliations: Tau Beta Pi Treasurer and Corporate Relations Officer

Relevant Coursework: Intro to Computer Organization, Algorithms, Algorithms in Bioinformatics

## WORK EXPERIENCE

---

### Software Engineer

September 2019 – Present

*Northrop Grumman Missions Systems, Woodland Hills*

- Removed country-specific code functionality from the H-1 mission computer.
- Wrote and tested low-level requirements for the instrument display (EFIS) and the core libraries on the safety-critical UH-60V helicopter program.
- Conducted structural coverage analysis and model verification on the flight director, instrument display, and core library modules for DO-178C software compliance.
- Created a VBS-Batch hybrid script to minimize the number of concurrent licenses in use.
- Worked cross-functionally with other software and system engineers to validate testing.

### Undergraduate Research Assistant

June 2018 – June 2019

*ZarLab (Computer Science Department), UCLA*

- Assessed the virtual memory consumption, runtime, and relative alignment accuracies of 32 sequence alignment tools, when run on large datasets sourced from NCBI and 1KGP.
- Generated artificial data to analyze 32 sequence alignment tools for their minimum read length and multimapped-and-unmapped-read behavior.
- Surveyed the indexing, seed length, and alignment algorithms of 107 sequence alignment tools.

## PROJECTS – victorxue.netlify.com

---

### Connect Four AI

- Implemented the game logic, menu, keyboard controls and graphics using the SDL library in C++.
- Built a difficulty-adjustable AI using a minimax algorithm.

### Pokemon Memory Card

- Developed a memory card game and view gallery using the Pokemon TCG API and React.
- Players can switch between three modes (normal difficulty, hard difficulty, view gallery).
- Includes search functionality that allows players to choose the Pokemon cards to be displayed.

### Blog API

- Created a RESTful blog API with password authentication using Node.js and MongoDB.
- Included a rich-text editor for writing posts and comments.
- Connected the backend to a React frontend and deployed the app to Heroku.

## TECHNICAL SKILLS

---

Programming Languages: Python, C, C++, HTML, CSS, Javascript, GraphQL, Matlab, Bash

Frameworks: React, Express, Mongoose, Gatsby

Tools: Node.js, MongoDB, Redis, Emscripten, Git, ClearCase, SCADE, DOORS, Docker, Windows, Linux