

# Kenny Hua Zheng

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## Education

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*University of California, Los Angeles*

B.S. in Computer Science

Expected graduation: Dec. 2020

## Coursework

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Operating System Principles, Computer Network Fundamentals, Computer Security, Database Systems, Computer Systems Architecture, Computer Graphics, Algorithms & Complexity

## Experience

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*CNC Software, Inc.*

Jun. 2018 — Sep. 2018

Software Engineering Intern

- Worked on Mastercam, the world's most widely used computer-aided manufacturing (CAM) software.
- Improved regions of C/C++ code base by replacing use of old toolpath entity retrieval API with new interface which provides more robust memory management to reduce memory leaks and improve application performance.

*Symantec*

Jun. 2019 — Sep. 2019

Software Engineering Intern

- Worked on the Windows client for Norton Secure VPN.
- Modified filtering and source tree of the Visual Studios project to remove inconsistencies in structure.
- Wrote test cases and performed code refactor and manual testing of the Norton Secure VPN application.
- Researched rival VPNs for BitTorrent support to help determine how the team will handle torrenting in future epics.

## Projects

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*China Taste* (MongoDB, Express, jQuery, Node.js)

Aug. 2018 — present

- Online ordering platform for local restaurant with user account system to store customer data.
- Designed login system with standard features such as password reset and email verification.
- Created dynamic frontend UI using jQuery and Bootstrap.
- Implemented backend using Node.js and Express to manage login sessions, validate user input, hash passwords (using bcrypt), and send customer data to MongoDB Atlas cloud database.

*Fish Farm* (JavaScript)

Nov. 2018 — Dec. 2018

- Aquarium simulation game where the objective is to earn money by raising different kinds of fish.
- Written using object-oriented design principles with separate classes for fish, plant, fish food, and shader objects.
- Used WebGL to custom design the fish, which were rendered using simple primitives (e.g. spheres, cubes) with various matrix transformations applied to them to produce the desired shapes/animations.

*Tetris* (Verilog)

Feb. 2018 — Mar. 2018

- Worked with a partner to create a Tetris application which can be uploaded to and run on Digilent FPGA boards.
- Mapped current (falling) block and placed blocks data to two 150-bit registers which represent the 10 x 15 board.
- Updated registers by performing bit manipulation (e.g. shifting to move falling block left/right, right shifting by 10 to move block down a row, ANDing placed and falling block registers to detect collisions, etc.).

## Technical Skills

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- Languages: C/C++, JavaScript, Python, SQL, HTML, CSS, Verilog, Bash, PHP
- Frameworks/Libraries: jQuery, Express, React.js, Next.js, Bootstrap
- Other: Node.js, Linux, Unity, MongoDB, Subversion, Perforce, Git

## Awards

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- UCLA Achievement Scholarship recipient
- Dean's Honor List - Winter 2018