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**Summary:** Software engineer, passionate about test automation and server-side. Eager to explore. Motivated by efficient solutions and learning from teammates.

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### Projects

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Apple Watch and iPhone Test Automation -- Written in Python, this framework implements test cases for pairing functionality between devices and the cloud. For example, simulates pairing a device and adding a credit card, its interaction with iCloud...

3D Robot Navigation -- Written in C and Python, this framework allows a user to control an Arduino robot's movement remotely, simulating 3D reality with a 3D coordinate system. With an LED, the robot can act as a stylus/3D printer...

Connect Four -- Written in C, this game includes a custom written graphic library. The board is a bit board data structure and is well compressed. Bit operations are used to determine a winning state.

Klotski Puzzle Solver -- This is a program written in C to solve the Kotski puzzle. It uses the breadth first algorithm and Huffman encoding to compress the board. The program will find the shortest path solution.

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### EXPERIENCE

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Apple, Inc. Santa Clara Valley, CA

March 2016 – Present

*Software Quality Assurance Engineer*

- Test software for correct functionality, performance, scale and security.
- Assess risk, document defects and summarize data for test reporting.
- Develop test cases and enhance test automation frameworks.
- Stabilized test from 36% failing to 99.75% passing.

Apple, Inc. Escondido, CA

August 2008 – March 2016

*Genius*

- Diagnosed and repaired technical issues for computers, iPhones and other devices.
  - Developed test cases that replicated common issues to discover underlying bugs.
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### Technical Skills

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Python, C/C++, Java, Unix, Xcode, vim, git

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### EDUCATION

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SAN DIEGO STATE UNIVERSITY

Bachelor of Sciences: Computer Science

San Diego, CA

December 2015