Joseph Widjaja

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Education

University of California, San Diego

- **Bachelor of Science, Computer Science -** Graduating 2018, GPA 3.51
- **Coursework:** Algorithms, Theory of Computation, Artificial Intelligence, Software Engineering

Experience

CSE Tutor, UCSD Computer Science and Engineering Department

CSE 8B Computer Science and OOP II: Java, Fall 2016	Sept 2016 — Present
CSE 100 Advanced Data Structures (C++), Summer 2016	July 2016 — Sept 2016

- Addressed student questions regarding programming assignments during lab hours and online.
- Analyzed student code to pinpoint bugs and suggested debugging methods.
- Graded programming assignments and exams.

Relevant Projects

Fizzle

- Android application developed with Android Studio using Java that helps users make drinks and find friends to share them with.
- Features Google Sign-in, recipe generating algorithm, and buddy finding swipe feature using Firebase for the backend.

WhoseChore

- Web application that helps housemates manage chore responsibilities using Ruby on Rails framework and PostgreSQL database.
- Features chore rotation and rewards system between household group members.

SensCalc

- JavaScript application that calculates mouse distance based on user settings and resolution.
- User can choose to calculate for the current screen resolution or for a 3D environment

Mancala Game

- Python application of the classic Mancala board game equipped with various AI opponents.
- Opponent has randomized heuristics for different sequencing outcomes.

Auto-complete

- C++ application that takes in a string and uses a Multiway Trie to return a specified amount of the most frequently used words from a dictionary.
- Uses selective pruning for time efficient completions.

Technical Skills

Languages	C++, C, Java, Python, Ruby, SQL, Swift, HTML, CSS, JavaScript, JQuery
Operating System	Windows, Mac, Unix
Tools	Eclipse, Visual Studio