**Jennie ­­­Nguyen**

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**EDUCATION**

**University of California, Santa Cruz** SEPTEMBER 2017 - DECEMBER 2020

*Bachelor of Science, Computer Engineering*

• Dean’s Honors List Spring Quarter 2018

• Courses Taken: Data Structures, Algorithms & Abstract Data Types, Computer Systems Design, VLSI Digital System

Design, Computer Architecture, Electronic Circuits, Multivariable Calculus, Applied Discrete Mathematics, Technical

Writing, Python Programming, C Programming

**SKILLS**

**Languages**: Java, C, Python, JavaScript, HTML5, CSS3

**Technologies**: Git, Bash, Unix

**Spoken Languages**: English, Vietnamese, Spanish

**PROJECTS**

**N-Queens Solution Generator** — Java, Unix­­­­

• Calculates the answers to a chessboard problem in which no 2 queens can be on the same row, column, or diagonal,

with user input n as the number of queens

• Utilizes 2D arrays, recursion, iteration & error checking

**Matrix Calculator** — Java, Unix View on [GitHub](https://github.com/jennie-n/CS101/tree/master/PA3)

• Performs fast matrix operations such as addition, subtraction, multiplication, exponentiation, and transposition

• Uses a space- and time-efficient object List Abstract Data Type (ADT) to represent matrices

**Calculator** — Javascript, HTML5, CSS3 Try in [Browser](https://jennienguyen.me/calculator/) | View on [GitHub](https://github.com/jennie-n/calculator)

• Performs all basic math operators: addition, subtraction, multiplication, division

• Originally designed with CSS3 & has keyboard functionality

**Alphabetizer** — C, Unix View on [GitHub](https://github.com/jennie-n/CS101/tree/master/PA2)

• Sorts any list of words from a txt file into alphabetical order

• Uses an integer List ADT to represent words that are organized in a bi-directional Queue ADT

**EXPERIENCE**

**Tech4Good Lab, Santa Cruz** — Undergraduate Research Assistant JANUARY 6, 2020 - PRESENT

• Studied social computing, the intersections of computational systems and computer interaction under guidance of Professor David Lee

• Worked for 10+ hours/week with a team of 6 to develop Relate, an activity platform for small groups that provides engaging activities designed for connection

**Camp Galileo, Milpitas** — Team Leader & Summer Intern JUNE 15 – JULY 27, 2018 & 2019

• Led 12 groups of 20 pre-K to 5th grade campers each in art, science, and outdoor play over the course of

a 6 week curriculum plan

• Collaborated with 14 instructors to develop classroom management skills & teaching techniques & more efficiently

educate students in a fast-paced environment

**Cal Teach, Santa Cruz** — Intern NOVEMBER 9, 2018 - MARCH 22, 2019

• Guided 2 middle school classrooms with 60 7/8th grade students in Java coding projects & assignments by asking

leading questions, explaining concepts, and writing pseudocode

• Taught 3 introductory lessons about coding basics such as plotting points, drawing shapes, and creating moving images

• Adjusted to using new Javascript programming IDE CodeNaturally in the classroom

• Held weekly meetings with host teacher to better implement new effective teaching strategies, resulting in a 6% average

project grade increase

**ACTIVITIES**

• Clubs: Society of Asian Scientists & Engineers, Society of Women Engineers, Circle K International