

Jennie Nguyen

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EDUCATION

University of California, Santa Cruz

SEPTEMBER 2017 - DECEMBER 2020

Bachelor of Science, Computer Engineering

- Courses Taken: Data Structures, Algorithms & Abstract Data Types, Electronic Circuits, Multivariable Calculus, Applied Discrete Mathematics, Python Programming, C Programming
- Dean's Honors List Spring Quarter 2018

SKILLS

Programming Languages: Java, C, Python, JavaScript, HTML5, CSS3, MIPS Assembly

Technologies: Git, Bash, Unix

Languages: English, Vietnamese, Spanish

PROJECTS

Calculator — Javascript, HTML5, CSS3

Try in [Browser](#) | View on [GitHub](#)

- Performs all basic math operators: addition, subtraction, multiplication, division
- Originally designed with CSS3 & has keyboard functionality
- Personal project with an open source repository on GitHub

Matrix Calculator — Java, Unix

View on [GitHub](#)

- 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

Alphabetizer — C, Unix

View on [GitHub](#)

- Sorts any list of words into alphabetical order
- Uses an integer List ADT to represent words that are organized in a bi-directional Queue ADT

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

EXPERIENCE

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

Camp Galileo, Milpitas — Team Leader & Summer Intern

JUNE 15 – JULY 27 in 2018 & 2019

- Led 12 groups of approximately 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
- Handled inquiries & facilitated discussions between camp families & staff management

ACTIVITIES

Society of Asian Scientists & Engineers (SASE) — Member

OCTOBER 2017 - PRESENT

- National collegiate organization dedicated to the advancement of Asian heritage scientists and engineers in education and employment