

# Matthew Ngo



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## Education

### 2019 - Current // UC Santa Cruz

- Major: Computer Science
- GPA: 3.95
- Relevant Courses:
  - Computer Systems Design, Algorithms & Abstract Data Types, Probability Theory, Comparative Programming Languages, Computer Architecture, Computational Models

### 2016 – 2019 // Orange Coast College

- Degrees: Associate in Computer Programming & Associate in Mathematics
- GPA: 3.9
- Relevant Courses:
  - Java 1, C++, Data Structures, Software Engineering, Boolean Algebra, Linear Algebra, Discrete Structures

## Skills

- **Programming Languages**
  - Strong in C and C++, with Certificate of Specialization granted by OCC Computer Science Dept.
  - Proficient in Java, Python
  - Familiar with Scheme, Ocaml, Smalltalk, and Perl
- **Web Development**
  - Proficient with HTML, CSS
- **Technologies**
  - Unix, Git
- **Graphic Design**
  - Two years of art and visual design education plus four additional years of freelance design experience.
  - Skilled with Adobe Illustrator and Photoshop

## Projects

- **Multithreaded HTTP Server & Load Balancer:** Written in C. Capable of responding to GET, PUT, and HEAD commands, with additional logging and health-checking features implemented. Multithreaded load balancer able to be run in conjunction with multiple instances of HTTP server in order to accept concurrent client requests and distribute them over the set of servers. Heavy utilization of thread synchronization techniques.
- **Matrix Operations Calculator:** Performs matrix operations that exploit the sparseness of matrix operands. Implemented using arrays of linked lists.
- **"BigInteger" ADT:** Used List ADT of longs to perform arithmetic operations on arbitrarily large signed integers.

## Work Experience

### Barista & Server // Café&Té – Restaurant & Tea Lounge // March 2016 – August 2019

- Duties included barista work, part-time management, hosting, and serving customers.

### Graphic Designer // Freelance // April 2015 - Current

- Commissions include school club and event t-shirts, student planners, restaurant menus, product packaging, employee uniforms, and business cards.