

Matthew Ngo

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Education

2019 - Current // UC Santa Cruz

- Major: Computer Science
- GPA: 3.95
- Relevant Courses:
 - Computer Systems Design, Distributed Systems, Web Applications, 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 Perl, Scheme, Ocaml, Smalltalk
- **Web Development**
 - Front End: Proficient with HTML, CSS, JS, jQuery, Bootstrap
 - Currently learning REACT & Redux
 - Back End: Familiar with Node JS, Express, MongoDB, REST routing
- **Technologies**
 - Unix, Git/GitHub/Gitlab, VirtualBox, Docker
- **Graphic Design**
 - Skilled with Adobe Illustrator and Photoshop

Projects

- **Multithreaded HTTP Server & Load Balancer:** 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 server in order to accept concurrent client requests and distribute them over the set of servers. Heavy utilization of thread synchronization techniques, research and use of C syscalls, and design documentation writing.
- **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

Shift Supervisor // Café&Té – Restaurant & Tea Lounge // March 2016 – August 2019

- Duties included barista work, employee 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.