

# Matthew Ngo

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🌐 <https://matt-ngo.com/>

## Education

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### 2019 - Current // UC Santa Cruz

- Field of Study / Degree: Computer Science BS
- GPA: 3.95
- Relevant Courses:
  - Web Applications, Computer Systems Design, Distributed Systems, Computer Architecture

### 2016 – 2019 // Orange Coast College

- Degrees: Associate in Computer Programming, Associate in Mathematics
- GPA: 3.9

## Skills

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- **Programming Languages**
  - C++, C, JavaScript, Python, Java
- **Web Development**
  - Front End: Proficient with REACT, HTML, CSS, JS, jQuery, Bootstrap, Material UI
  - Back End: Node JS, Express, MongoDB, PostgreSQL, REST routing, OpenAPI
  - Testing Frameworks: Jest, Puppeteer, SuperTest
- **Technologies**
  - Unix, Git/GitHub/Gitlab, VirtualBox, Docker
- **Graphic Design**
  - Skilled with Adobe Illustrator and Photoshop

## Projects

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- **Full-Stack Email Browser**
  - Single page, Responsive web app with RESTful route validation, and multi-user authentication supported using JSON Web Tokens
  - Developed with REACT, Material UI, Axios, OpenAPI, Node.js, Express, PostgreSQL Docker container
- **Multithreaded HTTP Server & Load Balancer**
  - HTTP Server responds to GET, PUT, and HEAD requests, with additional logging and health-checking features implemented. In testing, multithreading yielded avg 2.5x speedup compared to original single threaded server.
  - Load balancer designed to run in conjunction with multiple instances of HTTP Server to handle accepting concurrent client requests and distribute them over the set of servers. Running the load balancer with just 1 extra server resulted in an average 1.5x speedup when running the test suite.
- **"CA" Sharded Key-Value Store:**
  - Partition-tolerant, available, and causally consistent distributed key-value store built with Python, Flask, and Docker
  - Guaranteed fault tolerance with replication, eventual consistency via gossip, and causal consistency through vector clocks + causal context JSON objects

## Work Experience

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### 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.