

# Anthony Wang

Software Engineer



## Education

- University of California San Diego [2012 - Present](#)
  - Pursuing a Bachelors Degree in Computer Science.
  - GPA: 3.84 / Major GPA: 3.94
  - Courses:
    - CSE 123/124: Computer Networks & Networked Systems  
Principles of the OSI model; switching; local, metropolitan, and wide area networks; congestion control; protocol software structuring; internetworking; Transmission Control Protocol, and RPC
    - CSE 132a: Database System Principles  
Basic concepts including relation databases, query languages, and schema design.
    - CSE 134b: Web Client Languages  
Design and implementation of World Wide Web clients
    - CSE 120: Principles of Operating Systems  
Basic concepts including input/output, interrupt handling, process synchronization, memory management, virtual memory, caching, and processor scheduling.
    - CSE 110: Software Engineering  
Foundations of Software Engineering including Mediator, Strategy, Decorator, Adapter Pattern, and agile development.
  - Awards:
    - 2 Provost Honor Awards for having a GPA over 3.5 for 3 quarters straight



## Projects

- HTTP 1.1 Server**  
Web server written in C++ that supports POST & GET methods, IP blocking, & permissions for users.
- Netflix Review Analyzer**  
System used to analyze Netflix reviews using MapReduce to Map and Reduce the massive amount of reviews. Collected data to see average ratings of movies during a certain amounts of time and more. Written in Java.
- Simple Router**  
Software router that can handle raw Ethernet frames and handles packets like a real router. The router is able to forward frames via IP Forwarding, generate ICMP messages, and handle ARP. The router also handles checksum, TTL, and caching.
- PayPal Data Generator**  
Automated system written with Spring Boot used to create transactions, to make refunds and to send money. Each action is imported into Quickbooks Online for E2E integration testing. Used PayPal Classic API, PayPal REST API, and Selenium HTMLUnit. I worked as a Project Manager and Developer for this project.
- Health As A Service**  
A continuous health monitoring system written with Spring Boot used to monitor health of services and their dependency service. Health is determined by the health endpoint or by testing the APIs for status codes, certain fields in the response, or response time. The system supports both XML and JSON responses by using XPath and JSONPath. The system utilizes MongoDB to log all health information. The service can support different types of Health Endpoints such as JSON, streaming outputs, and HTML. I worked as a Project Manager and Back End Developer for this project.
- Multi-Language RPC-Based Twitter Service**  
Twitter service built with the Thrift toolkit. Implementation consists of both server and client written in Java and Python.



## Work Experience

- Intuit / [June - September 2015](#)**  
Role: Software Engineer Intern.
  - Developed a Paypal Data Generator used for E2E integration testing between Quickbooks and Paypal.
  - Developed Health As A Service used to continuously monitor Health Endpoints and tests REST and SOAP APIs.
  - Ported Intuit's Data Services to as a RESTful service.
- Coupons.com / [June - September 2014](#)**  
Role: Software Engineer Intern.
  - Designed a failsafe program to process Splunk logs and to reprocess any of these failures.
  - Wrote Unit Tests to test migration between Cassandra Tables.Worked with Coupons.com's REST API and Cassandra.
- UCSD CSE Department Tutor / [Fall 2014- Spring 2015](#)**  
Tutored for Software Engineering and a Digital Systems Lab.

## About Me

I am an enthusiastic Software Engineer focused on back-end development. Primarily, I am interested in networking and server-side development.

## Skills

- Java
- C / C++
- Git/Mercurial
- Spring
- Jira
- Object Oriented Design
- Eclipse, VIM, Photoshop
- SQL, Cassandra, MongoDB
- HTML, JavaScript, CSS