

# Thanh Nguyen

<http://mthanh.com>  
[nguyenhm.thanh@gmail.com](mailto:nguyenhm.thanh@gmail.com)

## EDUCATION

**SAN JOSE STATE UNIVERSITY | B.S. COMPUTER SCIENCE**

Anticipated Spring 2020 | GPA: 3.89 / 4.00

## SKILLS

Java • Python: Flask, NumPy, Pandas • Scala • SQL  
JavaScript, React, Redux, Node.js • HTML, CSS

## COURSEWORK

Programming Paradigms • Database Management Systems • Data Structures and Algorithms • Object-Oriented Design •  
Computer Architecture • Server-side Web Programming • Theory of Computation • Statistics and Probability

## EXPERIENCE

**AFFINITY SOLUTIONS INC. | BIG DATA MINING INTERN**

May 2019 – current | San Jose, CA

- Utilize SQL and RegEx to analyze transaction data
- Assist with development tasks, build match algorithms

**D & T FOODS INC. | ADMINISTRATIVE ASSISTANT**

Sep 2014 – Aug 2019 | Santa Clara, CA

- Work as Inventory Control Clerk and Purchasing Assistant
- Create automation tools using VBA in Excel to ensure inventory record accuracy and eliminate repetitive tasks
- Use Microsoft Dynamics NAV ERP and Microsoft Excel to extract, manipulate and analyze data
- Develop operation procedures, test questions and train 11 new employees in Purchasing Assistant position

## PROJECTS

**ENCRYPTOR DECRYPTOR WEB APPLICATION | PHP, MYSQL, JAVASCRIPT**

Individual work for Server-side Web Programming class | Grade A | Spring 2019

Build a web application that encrypts and decrypts text using 3 algorithms: Simple Substitution, Double Transposition and RC4.  
The application supports: user authentication, password management, file uploading, sessions and cookies, client-side validation

**SEARCH ENGINE SIMULATOR | JAVA, SWING, JSOUP**

Individual work for Data Structure and Algorithms class | Grade A | Fall 2018

Use different types of data structures, sorting algorithms and HTML Parser to simulate a search engine, where user can search for a keyword, find related links sorted by a page rank for each link, change a page rank, update the result page, add, delete a link, and find the most popular keywords

**SOCIAL NETWORK SIMULATOR | JAVA, SWING**

Individual work for Data Structure and Algorithms class | Grade A | Fall 2018

Use Hash Table, Hash Function and Linked List algorithms to simulate a social networking site, where user can create a profile, add and remove a friend, check friendship of any two users and see friend list of their friends

**CHESS GAME | JAVA, SWING, JUNIT, MVC PATTERN, UML DIAGRAMS**

Team project for Object Oriented Design class | Grade A | Fall 2018

Collaborate with 2 other students to create a two-player Chess game with MVC design patterns, four UML diagrams