

# Liam Nguyen

Software Engineer

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## EDUCATION

### Master in Computer Science

California State University Long Beach, California

GPA: 4.0

2019 - 2020

### Bachelor of Science, Biology/Chemistry

University of California, Irvine, California

GPA: 3.3

2010 - 2013

## WORK EXPERIENCE

### Assistant Manager — Bach Khoa Learning Center

2013 - 2018

Garden Grove, California

Gina Tang - Supervisor - Phone: (714)-209-5571

- Utilized Microsoft Office Suites to manage students' and instructors' performance.
- Handled administrative duties for a day to day operation in the center.
- Worked with new and current parents to understand the current obstacles and devise a plan to boost the performance.

## PROJECTS

### Bug hound — A software bug management system

<https://github.com/liam-nguyen/BugHound>

- Technologies: Django (Python), Bootstrap, SQL, HTML
- Allows developers to manage bugs for multiple applications and handle authentications for different access levels.
- Developed Entity Relationship Diagram for SQL database in third normal form.
- Wrote the backend service with Django for CRUD operations and stored data into SQL database.

### Web-based Version Control

<https://github.com/liam-nguyen/CECS543LMD>

- Technologies: NodeJS, ExpressJS, Pug, HTML, Bootstrap, Javascript.
- Supports CRUD operations for commits, branches and allows branch merging, conflicts resolutions similar to Git.
- Wrote the server and backend services in NodeJS and ExpressJS and contributed to improve the styling.

### Semantic Data Generation

<https://github.com/liam-nguyen/CECS-571>

- Technologies: Maven, Apache Jena, Apache Fuseki, Java.
- Converted seemingly unrelated datasets from health organizations (healthdata.gov) into semantic data for future complex queries.
- Worked with other developers' parsed data and wrote the program to convert parsed data into ontology graphs.
- Improved performance by 10X by utilizing efficient data structures and multi-threading.

## PROGRAMMING LANGUAGES

Java | Javascript | Python | C++ | C# | SQL | HTML | CSS | SASS

## FRAMEWORKS / LIBRARIES

Spring | React | Redux | NodeJS | ExpressJS | Django | MongoDB | Bootstrap | Scikit-Learn | Mathplotlib

## TOOLS

Git | Junit | Unix | Jest | Latex | Vscode | IntelliJ | Anaconda

## LANGUAGES

English | Vietnamese

## CONFERENCES

### Autoscaling in Kubernetes

<https://github.com/liam-nguyen/Autoscaling-in-Kubernetes-Paper>

- Analyzed how Kubernetes gather metrics and perform its auto-scaling actions when handling many computational expensive operations.
- Explored proposed improvements in scaling techniques to handle sharing of resources among containers more fairly, robust, and efficiently.

### Android OS vs Linux OS

<https://github.com/liam-nguyen/CECS-526-Term-Paper>

- Researched the internal systems of each system on four aspects: kernel, file system, power management, and security.
- Presented the finding to developers who are interested in mobile development and desktop applications.