

Hoang Nguyen

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Education

University of California, San Diego | 2016-2020

Bachelor of Science of Computer Engineering with Minor in Mathematics

GPA: 3.62

Activities: Eta Kappa Nu, Computer Science and Engineering Society

Experience

CSE Tutor | UCSD CSE Department | Jan. 2018 - Current

- Tutors and holds lab hours, explaining course concepts and helping students debug programming assignments for CSE 30, a class focused on Assembly Programming in ARM architecture and C Programming.

Professional iOS | CodePath | Feb. 2018 - May 2018

- Attended a bootcamp designed to cover all major topics in building an iOS application using industry best practices (Swift).

Projects

[Zenyth \[iOS Application\]](#) - May 2017 - Sept. 2017

- Designed and programmed the core backend infrastructure using **Laravel**, PHP 7.0 and **normalized MySQL tables**.
- Handled **request throttling** when certain user makes too many requests to the same API endpoint.
- **Cached JSON response** with **Redis** in order to send out responses faster.
- Created a **Model-View-Controller** design for the application and built the core **network layer** that makes API requests to the Backend service.
- Used **Google Maps API** to mark locations of events and **Facebook/Google OAuth** for authentication.

[ZeroIn \[Web App\]](#) - Mar. 2018

- Web app aimed to save time for students who are looking to study certain topics mentioned in lectures.
- Annotated videos with time marks that contain important information and website links where students can look to study more about that topic. Tasks achieved by using **Microsoft Cognitive Services Text Analytics API**, **Bing Search**, and **Speech Recognition**.
- **Python Flask** backend hosted on **AWS** serves the annotated video to users.

[Guitar Tuner \[iOS Application\]](#) - Dec. 2017

- An application used to tune the guitar with many different variations of guitar tunings.
- Used **Apple's Accelerate** framework in order to perform Fast Fourier Transform on the signal data captured by the microphone in order to calculate the frequency of the sound wave, which in turn determines the note being played.

Skills & Abilities

Languages: (<2 years) Java, Python, C, PHP, Swift (<1 year) C++, JavaScript, SQL, HTML/CSS

Frameworks: (<1 year) Laravel, Node.js (<1 year) React, Flask

General: Natural Language Processing, Redis, Database Design, AWS, REST, Command Line Scripts, Mobile and Web App Development, Backend Development