





HOA NGUYEN

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EDUCATION

University of California, Santa Cruz

Jun 2020

Bachelor's of Computer Science

GPA: 3.4

Bachelor's of Linguistics

Coursework: Algorithms and Abstract Data Types • Data Structures • Artificial Intelligence • Natural Language Processing • Data Wrangling and Web Scraping • Software Engineering • Compiler Design • Algorithm Analysis • Computer Systems and Assembly Language • Comparative Programming Languages • Software Design Project

EXPERIENCE

Software Developer (Senior Design Project)

Jan 2020 - Jun 2020

University of California, Santa Cruz

- Programmed a hands-free conversational chatbot mobile application for people living with diabetes helping them manage and learn more about their diabetes in a collaboration with a startup company
- Designed two critical text-to-speech and speech-to-text components using React Native, improving accessibility to those with visual impairments as well
- Collaborated in a team of six practicing Agile software development with Scrum framework to build a product in 6 months

Linguistics Research Assistant (Programmer)

Oct 2018 - Aug 2019

University of California, Santa Cruz

- Created JavaScript algorithms to iterate through sentence trees using recursion
- Developed a searchable bibliography using JavaScript, HTML, and CSS
- Used PRAAT software technology to annotate sentences in Basque for tones
- Collaborated on a computational web application that draws syntactic and prosodic trees and compared them against Optimality Theory constraints

SKILLS

Coding Languages	Java, Python, JavaScript, React Native, HTML, CSS, C
Concepts	Version Control (Git), MongoDB, Flask, Algorithms, Data Structures, Linux Command Line, NoSQL, Object-Oriented Programming (OOP), Scrum, Agile, Web Scraping, APIs, Virtual Environments
Other	Customer Service, Research, Data Analysis, Web Application Development, Heroku, GitHub

PROJECTS

Personal Blog

- Engineered a Heroku deployed responsive personal blog website to build full stack experience
- Used Python and Flask for the back end framework, HTML and CSS for the front end framework and UI, and MongoDB cloud database to store and retrieve posts and pictures
- Features an infinite scroll and an email form that uses the Google API

Information Retrieval-based Question Answering Engine

- Developed the question processing and answer extraction systems of a QA engine using Python, NLTK, regex, and wordnet
- Applied concepts such as bag of words, coreference, named entity recognition, constituency trees, dependency trees, and other natural language processing methods

Crowdsourced Anonymity

- Partnered with teammates to create an app that anonymizes your personal browsing data through crowdsourcing other's user data
- Created the TCP server and website filter and developed functionality for groupings using Python, Socket, and CSV
- Practiced Agile software development using Scrum framework with one week sprints