Henry Nguyen

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EDUCATION

University of California, Santa Cruz **Expected**: 05/2021
B.A. Computer Science **Awards**: Honors Society

De Anza College 09/2016 - 06/2019 **GPA**: 3.81
 Awards: Dean's List

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Compilers, Assembly Language, Algorithms, Computer Networking, Natural Language Processing, Database Systems

TECHNICAL SKILLS

Languages: C, C++,Java, Python, HTML, CSS, JavaScript, SQL(PostgreSQL, noSQL)
Frameworks/Technologies: Linux, React, AngularJS, Git, MongoDB, AWS(Associates in progress)

RELEVANT WORK EXPERIENCE AND PROJECTS

Custom Blockchain **06/2020 - 08/2020**
- Created a blockchain implementation using linked lists and merkle trees in Javascript in order to teach people blockchain technology
- Used the crypto-js library function to create secure hashes for the blocks and added proof-of-work to emulate BitCoin
- Allowed users to interact with the blockchain by implementing a frontend UI in Angular showing the structure of a blockchain and mining new blocks

Pokebot **03/2019 - 06/2019**
- Coordinated a team to design an Discord bot simulator using the Discord API in Python
- Implemented an asynchronous system for users to claim, release, trade, and search information on Pokemon through text commands
- Built by extracted information and images from 3 different external APIs and databases

IMDb Text Classifier **01/2020 - 03/2020**
- Worked on a team to built software to classify text from an IMDb review dataset using machine learning and NLP to see if the review is negative or positive using Python
- Produced a Keras model that embeds text as a sequence of vectors and transforms that sequence into a vector using a GRU layer, then applying a neural network to see the results
- Optimized the model by 10% by testing hyperparameters such as learning rate, embed size, dropout rates, and epoch size which improved Test Accuracy to 86%

Park Heights Pre-School **06/2016-06/2019**
- Volunteered to work with teachers and care-workers to teach basic math and English to preschoolers

EXTRACURRICULARS

MSI Study Group Leader **01/2020 - 06/2020**
- Tutored freshmen undergraduates in introductory programming Python courses.