# VICTOR CHEN

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## EDUCATION

**UNIVERSITY OF RICHMOND** | B.S. IN COMPUTER SCIENCE | MINOR: MATHEMATICS | OVERALL GPA: 3.50

August 2017 – May 2021

- **Relevant Coursework:** Data Structures, Discrete Structures, Software Systems Development, Algorithms, Computer Organization, Computer Networks, Artificial Intelligence, Programming Languages, Machine Learning

## SKILLS

**Languages:** C++, Java, Python, JavaScript, HTML, CSS

**Tools/Frameworks:** React, Node.js, jQuery, Flask, Bootstrap, Git, TensorFlow

## EXPERIENCE

**UNDERGRADUATE RESEARCH INTERN** | UNIVERSITY OF RICHMOND

May 2019 – August 2019

- Developed an event-driven simulator in C++ to accurately recreate interactions between first-responders, bystanders, and active threats to reduce capital investment in crises training for law enforcement and college campuses
- Simulated evacuation, chasing, and building clearing scenarios using a 3D model of academic building

## PROJECTS

**QUARTERLY** | JAVASCRIPT (REACT), BOOTSTRAP, HTML, CSS, CHROME API

May 2020 – Present

- A Google Chrome extension that reminds users to practice selfcare for posture, eye strain, and hydration
- Developed using the React library, Chrome API for persistent and accurate alarm events, and Bootstrap for a responsive front-end design

**ACCESSIBLE SPELLBOOK** | JAVASCRIPT, NODE.JS (ASK SDK), AXIOS, CHEERIO (JQUERY), AWS

May 2020

- An Alexa skill that allows visually impaired users to query the web for Dungeons and Dragons 5th Edition spells simply through voice input
- Generates complete spell descriptions from all published sources by using Axios and Cheerio, npm modules for web scraping, on Wikidot articles, and AWS for processing speech input/output

**NEURAL STYLE TRANSFER** | PYTHON, KERAS, TENSORFLOW, PYLAB

March 2020 – May 2020

- An application that allows users to accurately transfer the color palette and artistic style of anime faces onto human faces; developed to research the boundaries of what is considered a good dataset in ML
- Leverages a VGG19 based convolutional neural network from the TensorFlow Hub to perform fast and efficient style transfer, and visualizes a myriad of style variations on PyLab

**COLLEGE READINESS INITIATIVE** | JAVASCRIPT, NODE.JS, MONGODB, HTML, CSS, BOOTSTRAP

September 2017 – May 2019

- A SAT management and studying web application for non-profit tutoring
- Developed a database for accessing student and administrator credentials using MongoDB and leveraged Bootstrap to create a responsive multi-platform user interface

**CODENAMES** | JAVASCRIPT, HTML/CSS, BOOTSTRAP

December 2018

- A web application port for the popular party game, *Codenames*, developed using jQuery, Bootstrap, and hosted on Microsoft Azure.
- Won Best Team Program at a state-wide hackathon with 100+ people hosted by MLH and GitHub