

# Henry Susantin

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## Education

### University of California, Irvine – Ongoing (Expected Graduation: June 2022)

*Computer Science and Engineering*

Relevant Coursework: Algorithms and Data Structures, Programming in Python, Programming in C++, Embedded Software, Information Retrieval

## Skills

### Programming Languages:

Python, C++, C, Java, HTML, CSS, PHP, JavaScript

### Skills:

Data Structure and Algorithms, Version Control (Git), JavaScript Frameworks (React), Software Development (Agile), Web Security (Burp)

### Interests:

#### HackerOne CTF

- Applied different techniques ranging from simple web exploits, SQL Injections, and Burp to discover flags in various environments.
  - Penetration tested web exploits for multiple personal websites produced by acquaintances

#### AI/ML

- Participated in google crash course to machine learning
  - Usage of OpenCV for small testing scenarios such as light facial recognition

#### Full-Stack Web Applications

- Proficient in coding front-end and back-end web applications using JavaScript, React, Node.js, Express, and Visual Studio Code

## Experience

### TrueLab – Research Assistant (July 2021 – Present)

- Developing machine learning algorithms to improve ultrasonic technology
- Tested data and trained neural networks for photoacoustic tomography

### KTBYTE – Computer Science Instructor (July 2020 – November 2020)

- Hired to develop and teach computer science classes for students to have the ability to read and write Java fluently and establish a solid foundation for their future endeavors.
- Independently developed curriculum, producing 18 sets of lesson plans and notes.
  - Emphasized retention and deep learning in problem sets presented in class

## Projects

### CaliAlert

- FireBase application using internalized database along with Twilio integration for backend support.
- Able to send notifications and support in real time on natural disasters occurring at user locations

### Portfolio Website

- Created a responsive personal portfolio website, featuring accumulated projects and references
- Used React, HTML, JavaScript, CSS, and WebGL for dynamic content through custom components

### League of Listen

- React-based quiz website created in one day with an interactable scoring system hosted on a local webserver using previously compiled data

### Voltmeter

- Functional voltmeter coded in C using ATMEGA32
- Recognizing analog to digital I/O with maximum precision to display various readings