

## Joshua Ho Nguyen

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### EDUCATION

Houston Community College, Houston, TX  
Associate of Science in Computer Engineering  
Cumulative GPA: 3.6

Expected **May 2028**

### SKILLS:

**Programming:** JavaScript, Python, Kotlin, C/C++, Java

**Hardware:** Raspberry Pi, ESP32, Arduino, Digital Logic, Multisim, Circuits

### PROJECT EXPERIENCE

#### Project Owner

DayOneTechSolutions

**June 2022 - Present**

Technologies: Kotlin, ReactJS, HTML/CSS, JavaScript, Bootstrap, Android

- Configured an Android phone using ADB to override the default text message limit and designed a custom phone application to enable mass text messaging and speed dialing functionality, optimizing communication efficiency.
- Designed and developed a responsive product website using ReactJS and Bootstrap.
- Coded a feature to sort through text messages, improving message management and accessibility.

#### Chief Technical Officer

CaseViaUs

**May 2025 - Present**

Technologies: React Native, Expo, Firebase, ExpressJS, AES, RSA, Stripe

- Architected and developed a cross-platform mobile application using React Native and Expo, implementing secure user authentication and real-time data storage with Firebase
- Implemented end-to-end encryption using AES and RSA to secure sensitive user communications and stored data
- Build backend APIs using Express.JS, Firebase and Stripe to manage user authentication, encrypted communication between a client and a lawyer, and payments

#### Lead Developer

Smart Trashcan

**March 2025 - April 2025**

Technologies: Python, Raspberry Pi, ESP32, Arduino, OpenAI API

- Led software and hardware development for a team project to prototype a smart trashcan capable of detecting objects based on recyclability
- Developed Python software on a Raspberry Pi to process sensor input and interface with the OpenAI API for object classification and automated system responses
- Integrated an ESP32 microcontroller to detect objects with an infrared sensor and output information from the OpenAI API

#### Lead Hardware Engineer

Digital Stopwatch

**March 2026 – April 2026**

Technologies: Multisim, 74HC74 IC, 7447 IC, 555 IC, 7-Segment Display, 7400 IC

- Created the schematic of the digital stopwatch circuit using Multisim
- Implemented sequential counting logic using 74HC74 D flip-flops and combinational control logic with 7400 NAND gates
- Developed the combinational logic to control counting flow and implement conditionally reset functionality

### AFFILIATIONS

#### HCC Cybersecurity Scholarship Competition

**November 2023**

- Participated in a 3-day Cybersecurity competition as part of a 2-person team, using Kali Linux, and various tools to tackle security challenges
- Achieved 2nd place by solving 13 problems in LetsDefend

#### NASA Community College Aerospace Scholars

**August 2024 – June 2025**

- Selected as a scholar for NASA's NCAS workshop, a program designed to prepare individuals for successful careers in STEM fields.
- Successfully completed Missions 1-3, gaining valuable experience in teamwork and time management
- Lead a group of 9 people to successfully present a proposal at NASA Langley

#### StellarMinds - NASA Space Apps Challenge Local Winner

**October 2024**

- Programmed a space orrery simulation using JavaScript, creating an interactive visualization of celestial mechanics.
- Implemented the eccentricity formula of an ellipse to accurately simulate planetary orbits within a space orrery visualization.
- Won the "Best Use of Science" award for effectively showcasing the celestial bodies of the solar system.