

# Joshua Ho Nguyen

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## EDUCATION

Houston Community College, Houston, TX  
Associate of Science in Computer Engineering  
Cumulative GPA: 3.7

Expected **May 2028**

**SKILLS:** C++, Python, Java, Javascript, Kotlin, HTML/CSS, Bootstrap, Linux, Github, MongoDB, Android, Android Studio, VSCode, Vim, AWS, ReactJS, Heroku, Ngrok, Twilio, OpenAI API, WebSocket, NodeJS, ExpressJS, Forge

## 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.

### Primary Developer

JavaScript Terminal

**July 2023 - September 2023**

Technologies: JavaScript, WebSocket, NodeJS, ExpressJS, node-pty

- Developed a browser-based terminal application with SSH-like functionality using JavaScript, ExpressJS and node-pty.
- Integrated WebSocket technology to enable simultaneous multi-user access to the web-based terminal application.

### Primary Developer

Physics Engine

**July 2024 - August 2024**

Technologies: C++

- Developed a C++ physics engine to simulate the motion and interactions of a bouncing ball, incorporating real-time physics calculations.
- Applied the kinematic equations from classical physics to model the ball's trajectory and determine its landing dynamics.

### Developer

StellarMinds - NASA Space Apps Challenge Local Winner

**October 2024**

Technologies: JavaScript, Canvas/Fetch/OpenAI API, Azure services, HTML/CSS

- 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.

### Primary Developer

Minecraft Modding

**December 2024**

Technologies: Java, Forge

- Created a custom Minecraft mod, introducing zombie archers with advanced behavior scripting and artificial intelligence.
- Used Object-Oriented Programming (OOP) principles, such as inheritance, polymorphism, and interfaces, to ensure modular and maintainable code.

## 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 2<sup>nd</sup> place by solving 13 problems in LetsDefend

### NASA Community College Aerospace Scholars

**August 2024 - November 2024**

- 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 and 2, gaining valuable experience in teamwork and time management