

# KHANG CHUNG

Software Developer

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## EDUCATION

HOUSTON COMMUNITY COLLEGE | Houston, TX | 3.44 GPA

Aug. 2020 – May 2021

UNIVERSITY OF HOUSTON | Houston, TX | Bachelor's in computer science, Minor in Math

Aug. 2021 – Dec 2025

## PROJECTS

COOG ZOO | Javascript, React, Vite, MySQL, HTML, CSS, Git

Aug 2024 – Nov 2024

- Developed a full-stack application for managing zoo animals, customers, employees, tickets, reports, and gift items
- Fully hosted database using AWS as well as frontend and backend using Vercel
- Implemented user and admin control features, allowing different levels of access and permissions
- Key features: Fetch, add, modify, and mark data for deletion directly from frontend

MINECRAFT MOD | JSON, Java, Minecraft Forge API, Aseprite, IntelliJ

May 2024 – April 2025

- Developed custom Minecraft blocks and items with unique functionalities & properties using Java
- Designed and created custom sprites for in-game assets using Aseprite
- Implemented block mining properties, loot tables, and crafting recipes using JSON
- Added quality-of-life features such as craftable elytra and transmuting items or blocks

RECAPTCHA GAME | React, HTML, CSS, JavaScript, GitHub Pages

March 2025 – April 2025

- Simulated a website with features, customer testimonials, team bios, and a sign-up form
- Developed ReCaptcha with difficult and fun challenges inspired by the Password Game
- Try it out: [khangchung15.github.io/recaptcha-game](https://khangchung15.github.io/recaptcha-game)

DISCORD MUSIC BOT | Python, Discord.py, FFmpeg, yt-dlp, PyNaCl, aiohttp, yarl, Lavalink

Dec 2024 – May 2025

- Developed self-hosted Discord bot built for ad-free audio streaming from URL or search
- Engineered local deployment to eliminate cloud/hosting costs while maintaining high audio quality
- Implemented features such as play and pause with real-time audio streaming using FFmpeg & Lavalink

CUSTOM ARCH LINUX SETUP & RICE | Arch Linux, Hyprland, Bash, CSS, Git

May 2025 – May 2025

- Built a minimal Arch Linux system with Hyprland, emphasizing aesthetics and workflow efficiency
- Configured a tiling window manager with custom-made taskbar to fit with the theme
- Automated music detection and playback from multiple sources via scripting
- Published reproducible dotfiles ([Github](#)) with documentation for seamless deployment

## ACTIVITIES

HACKATHON | WATT WATCH | Python, Flask, BeautifulSoup, JavaScript, HTML/CSS

April 2025

- Led a team of 5 to develop real-time dashboard to monitor Texas power grid and gives a warning if under stress
- Implemented web scraping with Python to extract and process live grid load data from ERCOT
- Built a Flask backend API to serve processed data with threshold alerts to a responsive frontend
- Add customizable threshold with persistent storage (JSON) for different sessions

## CERTIFICATES

- Google AI Essentials
- Game Design and Development 1: 2D Shooter

Issued on April 30, 2025

Issued on June 6, 2025

## SKILLS

- Programming Languages: HTML/CSS, Java, Python, C++, JavaScript, R | SQL (MySQL, PostgreSQL), NoSQL (JSON)
- Framework & libraries: React, Vite, Flask, Node.js, Django, Discord.py | aiohttp, yarl, PyNaCl
- Tools & Platforms: Git/GitHub, AWS, VS Code, Eclipse, Vercel, IntelliJ | FFmpeg, yt-dlp, Lavalink, Aseprite
- Coursework: Data Science, Statistics, Data Structures, Algorithm, Operating Systems, Software Design, Database Systems, Computer Architecture, Digital Imaging Processing

## ADDITIONAL ACTIVITIES

VOLUNTEER | PIANO PERFORMANCE

- Performed for residents in various retirement homes
- Volunteered as a performer for a music master's degree student's critique assignment