

Koren Stalnaker

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EDUCATION

University of Houston

Bachelor of Science, Major in Computer Science, Minor in Data Science

Houston, TX

Aug 2021 — Dec 2026

- Major GPA: 3.8
- Relevant Coursework: Data Structures, Computer Organization & Architecture, Algorithm Analysis & Design, Discrete Mathematics, Database Systems, Fundamentals of Software Engineering

WORK EXPERIENCE

Code Sensei (Programming Instructor)

Aug 2025 — Present

Code Ninja

Houston, TX

- Mentored children aged 5–14 in programming languages and platforms, including JavaScript, C#, Java, Lua, and Unity
- Taught problem-solving and debugging strategies, students' logical thinking and independent programming skills

Team Member

May 2023 — Aug 2024

Whataburger

Houston, TX

- Provided efficient, high-quality customer service in a fast-paced, high-volume environment
- Collaborated with team members to optimize processes and meet tight deadlines

Basketball Coach

May 2019 — Aug 2023

Hoops School

Houston, TX

- Mentored children aged 3–14, developing teamwork, discipline, skill, and assigning team positions to maximize talent
- Trained and supported new coaches, fostering a positive and collaborative environment

PROJECTS

Obsidian Plugins Development

- Created and maintained open-source plugins for Obsidian, enhancing note navigation and editing workflows
- Built with TypeScript/JavaScript using Obsidian's API to deliver theme-aware UI components and editor enhancements
- Selected plugins:
 - Floating Headings – Dynamic sidebar for navigating document structure (collapsible, searchable, theme-adaptive)
 - Typst for Obsidian – Integrated Typst editor/renderer with live preview and syntax highlighting
 - Auto Close Tags – Intelligent auto-closing of HTML tags with configurable rules and hotkeys

PresetBase

<https://github.com/k0src/PresetBase>

- Built a full-stack web application for cataloging and discovering song presets, for music producers and fans to explore preset origins
- Implemented authentication with Supabase and Google OAuth 2.0 for secure user account management
- Developed full-stack web application for cataloging and discovering song presets, with Node.js/Express/TypeScript backend, PostgreSQL database, Supabase storage, and responsive React frontend, with authentication via Supabase/Google OAuth
- Applied security middleware and Multer for secure file uploading and handling
- Deployment in progress: backend on Render, frontend on Vercel, custom domain via Cloudflare

CoogMusic

<https://github.com/k0src/COSC-3380-Project>

- Full-stack music streaming app for university students and alumni, managing backend on Azure App Services (Linux) with Postgres database and Blob Storage for secure uploads
- Built a responsive frontend with React, TypeScript, HTML, and CSS, incorporating modern web app design principles
- Developed backend APIs for user, artist, and admin management
- Led a team of 5, coordinating tasks and guiding development while contributing core functionality

EXTRACURRICULARS

IEEE Natural Sciences and Mathematics

Jan 2021 — Present

- Founding member of IEEE-NSM (<https://www.ieee-nsm.com/>), a UH organization dedicated to promoting innovation and collaboration in engineering, technology, and programming
- Organized and participated in programming competitions, workshops, and other events for NSM students at UH
- Collaborated with NSM professors to allow students to earn extra credit by participating in events or by attending presentations by graduate students

SKILLS

- **Programming Languages:** JavaScript, TypeScript, Python, Java, C++, C, C#, R, SQL, PowerShell, HTML/CSS, Rust
- **Technologies:** React, Git, Node.js, Express.js, .NET, Supabase, Azure (App Services, Blob Storage, Databases), Angular, Docker