Benjamin Key

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EDUCATION

University of Houston - Honors College — Houston, TX
Bachelor of Science - Double Major in Computer Science and Mathematics — Aug. 2021 – May 2025
Minor in Business Administration
UH NSM Dean's List (2021-2023)
3.85 Cumulative GPA

EXPERIENCE

Paycom — Grapevine, TX
Software Development Intern — May 2023 – Aug. 2023
- Engaged in 40+ hours of professional technical training over several development topics
- Built a REST API to easily search and query usable data from a company-wide database service
- Created a VS Code extension to bring API data to the frontend user with an easy-to-use UI
- Deployed the extension via GitLab CI/CD pipelines to service hundreds of professional software developers

University of Houston — Houston, TX
Community Mentor — Aug. 2023 – Present
- Assisted the community of 400+ residents and staff during multiple move-in and move-out transitions
- Led a staff of 10 RA's and assisted them with their programs and other initiatives
- Oversaw the building's hall council chairs and supervised their weekly meetings
- Promoted student involvement on campus and reached out to residents about multiple available opportunities

PROJECTS

Portfolio Website | TypeScript, Next.js, Figma, Piskel — Jan. 2023 – Present
- Utilized the Next.js framework to build an interactive website to display my skills, interests, and experience
- Created 16+ individual spritesheets and implemented self-isolated animation cycles for each
- Built a pseudo game engine to manage framerate and world-based time and positioning

CougarCS Discord Bot | TypeScript, Node.js, Discord.js, AWS, Docker, Supabase — Oct. 2022 – Present
- Designed all 20+ commands to handle the community interaction with the organization's services
- Utilized GitHub Actions and AWS Elastic Container Service to deploy the bot for 1000+ members
- Lead a team of 6+ student developers to contribute to the service and navigate the Discord.js library

CodeRED Mobile | TypeScript, React Native, Expo, PostgreSQL, Supabase, Figma — Dec. 2022 – March 2023
- Built a demo React Native app to be used for hackathon registrants, participants, sponsors, and officers
- Used the Figma design application to organize and experiment with different UI features
- Implemented the PostgreSQL database and authentication features of a private Supabase instance

LEADERSHIP

CodeRED Genesis Hackathon | Executive Director — Jan. 2023 – Present
- Interviewed and assembled a team of motivated individuals to coordinate our next annual hackathon
- Spearheaded development on a new web application project to handle the user experience
- Delegated important tasks to the executive department leads and conducted frequent progress checks

TECHNICAL SKILLS

Languages: Java, C/C++, C#, SQL, MQL, JavaScript, TypeScript, HTML/CSS, Matlab, Bash, R, php, Python
Developer Tools: GitHub, GitLab, Docker, AWS, GCP, Vercel, VS Code, Postman, Linux, Node.js, Figma, Expo
Frameworks and Package Managers: React, Next.js, React Native, Express.js, npm, Yarn, NuGet, Composer
Database Systems and Services: PostgreSQL, MySQL, Supabase, MongoDB
Coursework: Programming & Data Structures, Computer Organization & Architecture, Operating Systems