

Benjamin Key

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EDUCATION

University of Houston - Honors College

Bachelor of Science in Computer Science

Bachelor of Science in Mathematics (Data Science Option)

UH NSM Dean's List (2021-2022)

3.8 Cumulative GPA

Aug. 2021 – May 2024

Houston, TX

EXPERIENCE

Paycom

Software Development Intern

- Will be interning as a software developer at Paycom during summer 2023

May 2023 – Aug. 2023

Grapevine, TX

University of Houston SHRL

Resident Advisor - Bayou Oaks

- Assisted all residents and staff during the move-in and move-out processes
- Oversaw 30+ residents and directly attended to their residential needs
- Promoted and managed residential RA programs to build community engagement

Aug. 2022 – Present

Houston, TX

PROJECTS

CodeRED Mobile | React Native, Supabase, Node.js, TypeScript, Figma

- Built a 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 role-based authentication abilities of Supabase to handle user authorization

Dec. 2022 – Present

Tasket - Assignment Tracker | MongoDB, Express.js, React, Node.js, TypeScript

- Designed the frontend application appearance with Figma
- Built a TypeScript React application implementing user accounts and task management
- Created a REST API server with Node.js connected to a MongoDB Atlas cluster

July 2022 – Present

8-bit Maze RPG Game | Java, Swing Library

- Designed 30+ character sprites with individual animation frames and other game assets
- Completed 3 progressive working demos testing out movement and collision features
- Created an original full-length storyline with multiple chapters planned

June 2022 – Present

LEADERSHIP

CodeRED 2023 Hackathon | Incoming Director

- Interviewed and assembled a team of motivated individuals to coordinate our next annual hackathon
- Spearheaded development on a new mobile app/web app project to handle the user experience
- Delegated important tasks to the executive department leads and conducted frequent progress checks

Jan. 2023 – Present

CodeRED Odyssey Hackathon | Corporate Relations Officer

- Compiled contact information for potential corporate sponsors
- Reached out to potential partners about sponsorship opportunities
- Worked with the marketing team to create promotional content for the event

June 2022 – Dec. 2022

TECHNICAL SKILLS

Languages: Java, C/C++, SQL, MQL, JavaScript, TypeScript, HTML/CSS, MATLAB, Bash, R, Python

Developer Tools: GitHub, Google Cloud, VS Code, NetBeans, Postman, Linux, MongoDB, MySQL, Node.js, Figma

Frameworks and Package Managers: React, Next.js, React Native, Yarn, npm

Coursework: Programming & Data Structures, Computer Organization & Architecture, Operating Systems

ADDITIONAL ACTIVITIES

- CougarCS Vice President - CodeRED (2022-Present)
- CougarCS Web Development Committee Member (2021-2022), Team Lead (2022-Present)
- Code[Coogs] Team TUX Lead (2022-Present)