

# Benjamin Key

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## EDUCATION

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### 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 2025

Houston, TX

## PROJECTS

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

Dec. 2022 – Present

- 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

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

July 2022 – Present

- 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

### 8-bit Maze RPG Game | Java, Swing Library

June 2022 – Present

- 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

## LEADERSHIP

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### CodeRED 2023 Hackathon | Incoming Director

Jan. 2023 – Present

- 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

### CodeRED Odyssey Hackathon | Corporate Relations Officer

June 2022 – Dec. 2022

- 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

## EXPERIENCE

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### Resident Advisor - Bayou Oaks

Aug. 2022 – Present

UH Student Housing & Residential Life

Houston, TX

- 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

## TECHNICAL SKILLS

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**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

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