Toby Frick

Software Developer

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WORK EXPERIENCE

Epic Systems - Software Developer Intern   *June 2023 – August 2023*
iOS Development, Rapid Iterative Design, MVC Architecture

- Developed an iOS app to increase operating utilization in hospitals worldwide
- Gained proficiency in user-centered rapid iterative design alongside a UX team
- "This is the best intern project I've seen" – A leading member of the surgical team

Grinnell College - Evening Tutor and Mentor   *February 2022 – Present*
Technical Communication, Data Structures and Algorithms

- Utilized guided questioning strategies to enhance student learning outcomes
- Assisted students learning functional, imperative, and object-oriented programming
- Most positively reviewed computer science tutor in 2022

PROJECTS

Chess Board Piece Location and Identification
Machine Learning, Transfer Learning, Image Homography, Correlation Filtering

- Employed computer vision techniques to identify the position of chess board images
- Applied transfer learning to adapt a pretrained CNN for chess piece classification

Virtual Data Path and Custom Instruction Set Architecture
Assembly Programming, Computer Architecture, Computer Organization

- Designed a virtual data path which supports a 16-bit custom instruction set architecture
- Increased knowledge of low-level structure which will inform high level design decisions

Hue-Doku Colorful Sudoku Android Application
App Development, Android Development

- Android app designed as a twist on the classic Sudoku experience
- Users solve Sudoku puzzles using distinct colors instead of numbers
- Leverages view models and local data storage for an effective user experience

EDUCATION

Grinnell College   *2020-2024*
Bachelor of Arts in Computer Science   *GPA 3.8*

SKILLS

JavaScript, React, SQL Firebase, HTML/CSS, Java, Swift, Python, Git, Xcode, Android Studio, Agile Development, MVC Architecture