

Harrison Ku

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education

University of California, San Diego

B.S. Computer Science

4.0 Major GPA, exp. June 2020

skills

Languages: Java, C++, C, Python, C#, R, SQL, LaTeX, MATLAB, HTML/JS/CSS

Other: Unix/Linux, Git, Android Studio, Vim, Visual Studio, AutoCAD

projects

MoodBible

Full-stack mobile app that generates customized quotes and song recommendations based on the user's current mood. Programmed for Android OS using Android Studio.

LyricsSearch

Web app that finds matching songs when given parts of song lyrics. Written using Flask, JS/CSS, and the Google Search API.

GoogleTranslate-Bot

Python script that parses over ~1000 Reddit comments per minute for keywords and translates them. Integrates both the Google Translate API and the Reddit API.

experience

Pure Storage

Summer 2018 (ongoing)

Software Engineering Intern, DevTools Team

- Creating a flexible, full-stack framework for tools that react to pull requests using Flask, Apache Kafka, PostgreSQL, Orator ORM, and the Bitbucket Server API
- Implementing Github's CODEOWNERS service and other development tools for company-wide use on Bitbucket

Art of Problem Solving

ongoing

Grader

- Interacting and working with students enrolled in AoPS's STEM-oriented online school
- Evaluating and giving feedback on assignments for a wide variety of advanced mathematics and computer science courses (competition math, calculus, object-oriented programming)

UCSD Jacobs School of Engineering

ongoing

Research Intern, CSE Department

- Studying areas related to algorithmic theory and complexity under Prof. Russell Impagliazzo

honors

USA(J)MO Qualifier

- Top 250 (0.08%) on Olympiad-level mathematics competition out of ~300,000 participants worldwide

USACO Gold Division

- Top ~600 internationally on algorithm-based programming competition

UCSD Jacobs School Scholarship

- Full-ride merit scholarship extended to ~10 students out of ~85,000 applicants each year