Stephen Jayakar

stephenjayakar.com stephenjayakar@berkeley.edu | 903.932.5500

EDUCATION

EXPERIENCE

BERKELEY

BS IN ELECTRICAL ENGINEERING AND May 2015 - July 2015 | Monterey, CA COMPUTER SCIENCE

Expected May 2020 | Berkeley, CA College of Engineering

LONGVIEW HIGH SCHOOL

Grad. May 2016 | Longview, TX Valedictorian in I.B. Programme

LINKS

LinkedIn://stephenjayakar GitHub://stephenjayakar

COURSEWORK

SICP

Data Structures

Computer Architecture

Discrete Mathematics

Algorithms

Computer Graphics and Imaging Intro to Database Systems

SKILLS

PROGRAMMING

Experienced:

Python • Swift • ŁTFX• Java

Familiar:

ENVIRONMENTS

Xcode • iOS • Firebase • Spotify-API • Bash • Windows • OS X • Unity3D • React

INTERESTS

MUSIC

Violin • EDM • Guitar • Singing

VIDEO GAMES

League of Legends Super Smash Bros. Melee osu!

UNIVERSITY OF CALIFORNIA, OFFICE OF NAVAL RESEARCH | SOFTWARE ENGINEERING

APPRENTICE

- Created four highly-specialized data visualization structures using D3.js.
- Collaborated with my team member and professor to generate interactive graphs of her research data on Lexical Link Analysis.

MOBILE DEVELOPERS OF BERKELEY | IOS ENGINEER

Sept 2017 - Present | Berkeley, CA

- Completed a series of mini-projects to demonstrate Swift profiency which utilized techniques such as asynchronous database calls and live location monitoring.
- Designed wireframes and mockups for the application our team is developing using material design principles.

PRO JECTS

STREAMLINE | Social Music Platform

Oct 2017 - Present

- Constructed from the ground-up a cross-platform mobile social music experience where users post "stories" of songs to their friends daily.
- Used Agile workflow to manage our team of 7 iOS and Android engineers.
- Utilized Firebase as well as Spotify API extensively to implement our feature set
- Published the app both to Google Play Store as well as Apple's App Store
- Maintaining the app as well as continuously adding new features.

ARYA | Melee Research Framework

Mar 2017 - Present

• Solving microsituations in Super Smash Bros. Melee using search algorithms and libmelee APL

C • C++ • RISC-V ASM • Rust • JavaScript CAL-NES | NINTENDO ENTERTAINMENT SYSTEM EMULATOR

Oct 2017 - Present

- Hacked together with a team of four a 6502 CPU with full support
- Added functionality to run iNES binaries

3DENGINE | Software Raytracer and Rasterizer

Apr 2017 - Present

- Built a live 3D raytracer to further my understanding of OOP and Linear
- Also constructed a software rasterizer to delve into the basis of modern 3D rendering as well as techniques such as Z-Buffering and perspective transforms.

AWARDS

2016 Regional KETK Student of the Year 2015 Level 1 **UIL State Violinist** 2014 Level 1 **UIL State Violinist**

2012 Nationals 1st Technology Student Association OSSD