# Anand Dukkipati

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## Education

*University of Michigan, Bachelor of Science in Computer Science,* ***GPA: 3.65/4.0*** Sep. 2017 - April 2021

- **Data Structures and Algorithms (EECS 281)**
- Object-Oriented and Advanced Programming (EECS 381)*
- Web Systems (EECS 485)
- Computer Organization (EECS 370)

*currently enrolled

## Skills

- Languages: C++, Java, Python
- Web: HTML, CSS, SQL, React.js, REST APIs
- Languages: English, Spanish

## Projects

*Animation Maker* July 2018 - Present

https://play.google.com/store/apps/details?id=com.arduk.animationcreator

- Developed an Android Application available on the Google Play store for drawing traditional frame-by-frame animation
- Designed tools and features such as drawing, making undos/redos, and "onion-skinning"
- Optimized app performance for new and old Android devices
- Debugged application based on user feedback
- Continuing to add new features and polish UI
- Accumulated **3000+ downloads** on the Play Store

*Insta485* Jan. 2019 - March 2019

http://ec2-3-17-131-121.us-east-2.compute.amazonaws.com/

- Developed a copy of Instagram using Flask, hosted on AWS (Amazon Web Services)
- Implemented a REST API to simplify requesting resources from webpages
- Created interactive UI and infinitely scrolling front page using React.js
- Implemented SQL database to keep track of user data and posts
- Designed page layout and graphics using HTML and CSS
- Wrote a bash script to automatically reset website content on an hourly basis to maintain demo

*AnandCraft*

https://github.com/anandrav/AnandCraft July 2019 - Aug. 2019

- Created a clone of Minecraft from scratch in C++ using OpenGL and SDL2
- Utilized concurrency via a second worker thread to increase performance and framerate
- Wrote wrappers around the C-style OpenGL API to make code more object-oriented

## Volunteering

*Drop-in Tutoring* Jan. 2019 - Present

- Provided tutoring for undergraduate computer science students through HKN

*Sequoia Place* Jan. 2019 - Present

- Visited retirement homes to help senior citizens use technology through HKN