

Kyle Yasuda

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EDUCATION

University of Michigan – Ann Arbor

Bachelor of Science, Computer Science

Ann Arbor, MI

April 2021

Coursework: Introduction to Artificial Intelligence, Mobile App Development, User Interface Development, Web Systems, Software Engineering, Data Structures and Algorithms, Introduction to Computer Organization, Foundations of Computer Science, Computer Science Pragmatics, Introduction to Statistics and Data Analysis

PROJECTS

Personal Website/Blog (React.js, Node.js)

- Taught myself HTML, CSS, and JavaScript before learning React and Node for creating web applications
- Built a personal website and blog using Gatsby.js for the front end and Express.js for the back end
- Wrote logic for dynamic page creation to generate pages and links for blog posts written in Markdown

Wikipedia Search Engine (Python)

- Built a scalable search engine for Wikipedia, in a team of two, using the Hadoop streaming interface
- Implemented parallel data processing with MapReduce so the program can scale to large corpus sizes
- Used a combination of tf-idf and PageRank scores during information retrieval to rank the pages

Instagram Clone (HTML, CSS, JavaScript, Python)

- Designed and built a full-stack Instagram clone with a team of two, using mainly pair programming
- Created a back end API using Python and sqlite3 and a combination of React and Flask for the front end
- Deployed the website using Nginx and Gunicorn running on an AWS EC2 Ubuntu 20.04 virtual machine

Connect 4 AI (C++)

- Helped build, as part of a 4-person team, a text-based implementation of Connect 4 with an AI
- Developed an algorithm for the AI using the Minimax algorithm as a base to make its decisions
- Created an AI capable of defeating the instructors' most difficult AI 80% of the time

COMPUTER SKILLS

Platforms: Arch Linux, Ubuntu 16.04/18.04/20.04, Windows 7/8/10

Programming Languages: C, C++, Python, HTML/CSS/JavaScript, TypeScript, React, Node, Java, Bash, R

Software: Vim, Git, GDB, Docker, pdb++, Make, Flask, Jinja2, VirtualBox, Android Studio, Visual Studio Code

WORK EXPERIENCE

Spartan All-Stars Sports Camp

Camp counselor

Los Angeles, CA

Summer of 2017, 2018

Vacation Bible School

Group leader / assistant

La Cañada, CA

Summer of 2016, 2017

ACTIVITIES

- Member of Delta Sigma Phi Fraternity
- Varsity golf player for the La Cañada High School golf team from 2014-2016