

Hanna Thayyil

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EDUCATION

UNIVERSITY OF ILLINOIS AT CHICAGO | COLLEGE OF ENGINEERING

Computer Science

Jan 2018-Expected Graduation December 2020 | GPA: 3.9

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN | COLLEGE OF ENGINEERING

Jan 2016-2017

EXPERIENCE

ABN CIRCLE | TECHNOLOGY DEPARTMENT LEAD

February 2020-Present | Chicago, Illinois

- Leading a team of software and design interns to facilitate development and deployment of digital applications
- Full stack software development of web applications and eCommerce platforms

UNIVERSITY OF ILLINOIS, COLLEGE OF ENGINEERING | RESEARCH ASSISTANT

January 2020 - Present | Chicago, Illinois

- Lead developer of Android web application used to study bioinformatics for long term care in collaboration with the UIC School of Public Health
- Frontend and backend design of android application using Android Studio and Firebase

UNIVERSITY OF ILLINOIS, COLLEGE OF PHYSICS | RESEARCH ASSISTANT

August 2018 - January 2019 | Chicago, Illinois

- Analyzed, and extrapolated quantitative data from CERN's particle physics library ROOT using visual C++

SIPEP DESIGN LLC | DIGITAL MEDIA PROJECT MANAGEMENT INTERN

April 2017 - July 2017 | Chicago, Illinois

- Oversaw project completion by serving as a liaison between client, software developers, and designers
- Maintained digital analytics and report statistics on user engagement and content performance

SKILLS

PROGRAMMING

C/C++ • C# • F# • Java • Python • MySQL/SQL • Javascript • HTML • Visual Basic • Android • NodeJS • React • Git • Spring • Maven • JUnit • JavaFX • Amazon Web Services • WebGL • Shell Script • PureData

ELECTRONICS

Arduino • Teensy • PCB design and fabrication

FABRICATION

CNC Mill • 3D Printer • Laser Cutter • Lathe

2D/3D-DESIGN

WebGL • Solidworks • Onshape • Processing • Adobe Photoshop • Illustrator

OTHERS

Google Adwords • SEO • Sprout Social • Wordpress • Express • Outlook

PROJECTS

AUDIO SAMPLE SEQUENCER

Summer 2020 | Chicago

- Electronic drum machine which allows recording, editing and sequencing of internal synthesized sounds, and MIDI clock synchronization with other devices
- Uses multiplexing to control buttons, LED's, and potentiometers
- Teensy powered; using the Teensy Audio Library

POCKET MIDI CONTROLLER

Summer 2020 | Chicago

- Electronic MIDI controller device and step sequencer which sends MIDI signals using a matrix of buttons and potentiometers to control parameters
- Arduino powered

UGRADUATE

April 2020 | UIC

- Mock student registration application which updates a database of students, allowing them to add/drop courses and see courses needed to graduate
- Built using Java, Spring framework (Spring Boot, Spring Security), Hibernate, MySQL and React.

EURORACK MODULE KICKSTARTER

May 2019 - August 2019 | mHub, Chicago

- Using embedded systems development to design audio synthesizer prototypes
- Developing, testing and debugging embedded software in MPLAB using C

ROCK PAPER SCISSORS LIZARD

December 2019 | UIC

- Game server which uses networking and multi-threading to allow multiple players to play the game. Clients can see other online clients, and challenge them to play.
- Built using Java and JavaFX

COURSEWORK

Data Structures & Algorithms • Machine Organization • Database Systems • Artificial Intelligence
Software Design • Languages and Automata • Programming Languages & Design
Secure Web Applications • Systems Programming
To be completed Fall 2020 : Computer Graphics

ACHIEVEMENTS

Deans List | Fall 2018- Spring 2020

SOCIETIES

Society of Women Engineers | University of Illinois
Linux Users Group | University of Illinois, Chicago
Palette and Chisel Art Academy | Chicago | 2016 - Present

INTERESTS

Digital Signal Processing • Audio Electronics • Artificial Intelligence
Theoretical Physics • Green Energy • Guitar & Flute • Oil Painting • Film Photography