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## **EDUCATION**

**The University of Chicago**, Chicago, IL GPA: 3.77/4.00

*BS in Computer Science, with a specialization in Human Computer Interaction, expected June 2022*

*Minor in Music, expected June 2022*

## **SKILLS**

**Languages:** Python, C, Elm, Clojure

**Computer:** Proficient in Microsoft Excel, Adobe Photoshop, Adobe Premiere

## **EXPERIENCE**

**Bohdan Khomtchouk Lab, University of Chicago Department of Medicine (Section of Computational Biomedicine and Biomedical Data Science)**

*Product Manager, Researcher, Software Engineer, June 2020-present*

- Led team during the summer of 2020 to create an application to display complex networks in augmented reality
  - Used ARKit, ARCore, Unity 3D, C#
- Assisting Professor Bohdan Khomtchouk, PhD during academic year with cardiology and AR bioinformatics projects
- Co-delivered keynote presentation with Dr. Khomtchouk for the 21<sup>st</sup> annual Scheme Workshop (as part of the International Conference of Functional Programming) to discuss [applications of Lisp-based languages in medical research and higher education](#)

**University of San Francisco Health Informatics, San Francisco, CA**

*Software engineer, Bioinformatics, June-August 2019*

- Full stack software development for bioinformatics research application
  - Assisted with design and development of a web app to analyze electroencephalogram (EEG) and electrocardiogram (EKG) data
  - Used Clojure, Clojurescript, Neo4j, Cassandra, Minikube, and Travis CI

**iD Tech Camps, San Francisco, CA**

*Instructor, June-August 2018*

- Designed and taught lessons to groups of 8-16 year-old students
  - Mentored their creation of a related final project
    - Video production with Adobe Premiere
    - Intro to programming with C, HTML, JavaScript

**Campus Policy Research Institute, University of Chicago**

*Deputy Executive Director, Co-founder, September 2019-present*

- Leading 4 teams of over 20 researchers to study policies that affect student life on campus: assist with research, communication, advisory, and project organization

## **PROJECTS**

**Elm Synth Sequencer**

*June 2020*

- Interactive music sequencer web app: available on [synth.jonahdf.com](http://synth.jonahdf.com)
  - Customizable scales, beats, bpm, transposition, and synthesizer, with support for file saving/loading
  - Focus on simplistic and intuitive UI

## **INTERESTS**

Amateur astronomy, choral singing, jazz trumpet, outdoor rock climbing, backpacking, Hillel, Hack@UChicago