# Jonah Fleishhacker

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## EDUCATION
**The University of Chicago,** Chicago, IL GPA: 3.80/4.00
*BS in Computer Science, specialization in Data Science,* expected June 2022

## SKILLS
**Languages:** Python, C, Elm, Clojure
**Computer:** Proficient in Microsoft Excel, Adobe Photoshop, Adobe Premiere

## HONORS
- Delivered keynote presentation for 21st annual Scheme Workshop (as part of the International Conference of Functional Programming), giving a student perspective of functional and Lisp-family languages in pedagogy.

## EXPERIENCE
**Bohdan Khomtchouk Lab, University of Chicago Department of Medicine (Section of Computational Biomedicine and Biomedical Data Science)**
*Product Manager, Software Engineer,* June 2020-present
- Designed and oversaw the creation of an augmented reality application to display 3D complex networks. Intended to advance visualization of 3D networks for clinical doctors and medical researchers.
- Led team of 5 to design and implement prototype from scratch, including XML parsing, nodes/edge rendering, force-directed visualization algorithms, and UI.
  - Used C# and Unity, with the ARCore and ARKit libraries for platform-specific AR features.
- Continue assisting Dr. Khomtchouk during academic year with academic writing on future of WebXR using WebAssembly.

**University of San Francisco Health Informatics, San Francisco, CA**
*Software engineer, Bioinformatics,* June-August 2019
- Assisted with early design and development of a web application to crowdsource electroencephalogram (EEG) and electrocardiogram (EKG) data analysis.
- Implemented a continuous integration and automated testing system using GitHub and Travis CI, and designed a login, accounts, and single-sign-on system using Clojure and Neo4j.

**iD Tech Camps, San Francisco, CA**
*Instructor*, June-August 2018
- Designed and taught lessons to small groups of 8-16 year old students, mentored creations of a final project
- Classes consisted of topics in video production, robotics, coding 101, and game design.

**Campus Policy Research Institute, University of Chicago**
*Deputy Executive Director***,** *Co-founder*, September 2019-present
- Serve on management team of student-run campus policy research group.
- Assist research, communication, advisory, and project organization.

## PROJECTS
**Elm Synth Sequencer**
*June 2020*
- Interactive music sequencer web app: available on synth.jonahdf.com.
- Customizable scales, beats, bpm, transposition, and synthesizer, with support for file saving/loading.
- Written in Elm and Javascript with the Web Audio API.

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