

 ☐ (248)-619-4787 **○** github.com/Yunif3

EDUCATION

University of Michigan

Ann Arbor, MI

B.S.E in Computer Science and Engineering

May 2021 (expected)

Major GPA: 4.0/4.0 • **Overall GPA:** 3.913/4.0

Relevant Coursework: Electronic Commerce, DS & Algorithms, Foundations of CS, Intro to Programming Languages, Intro to ML

WORK EXPERIENCE

Undergraduate Research

Ann Arbor, MI

Principal Investigator

May 2019 - Present

- o Designing and implementing a non-biased method of determining the perception gap in opposing opinions.
- $\ \, \text{ Tackling reported opinion perception gaps of 20\%+ and eliminating 10\%+ coder disagreement rates from alternative methodologies. } \\$
- o Developing full-stack using Django, Python, Bootstrap, and HTML/CSS to iteratively improve the interactive web application.
- o Published the web application on Heroku through its CLI with a Postgres backend and forwarded multiple domains.

Programming Language Development

Ann Arbor, MI

January 2020 - Present

- Functional Programming Lab
- $\ \, \hbox{$\circ$ Implementing Hazel, a new live functional programming environment featuring typed holes.}$
- Collaborating with 30+ contributors to develop using a dialect of Ocaml (ReasonML).

VivicaCo-founder and CTO

Ann Arbor, MI

Co-founder and CTO

December 2018 - Present

Founded a Blockchain startup to solve opioid over-prescription and doctor shopping that caused the Opioid Crisis.

o Produced a prototype using C++ and Qt GUI and won \$9,000+ from multiple competitions such as the International Blockchain Olympiad.

Teaching Assistant

Ann Arbor, MI

Discrete Math and Intro to Programming

January 2019 - Present

- o Lead sessions for 100+ students and weekly discussions of 40+ students with 900+ students enrolled for the course.
- o Taught for Winter '19, Spring '19, Fall '19, and Winter '20 with every student evaluation field median score above 4.0/5.0.

Bioinformatics Research

East Lansing, MI

Student researcher and data analyst

May 2016 - May 2019

- o Co-authored 6 publications in peer-reviewed journals with 3 lead authorships and replaced a decades-old evolutionary model.
- o Optimized the position of zinc molecules in proteins by using JAVA to calculate 3D coordinates to be represented in PDB format.
- o Visualized the statistical analysis from Python scripts using R and iGraph library.

PROJECTS

Logical Equivalence Calculator[C++]

January 2019 - Present

- o Created a calculator that solves and explains logical equivalence problems to help EECS 203 students.
- o Parsed logical equivalence expressions in a n-ary tree and minimized the number of elements.

Real-time Multiplayer Gomoku[Python, JavaScript]

January 2020

Developed the game using Javascript and integrated Django and websocket using Django Channels to relay data in real-time.

Platform Independent Digital Creatures[C++, Solidity]

May 2019 – December 2019

- Designed and developed a decentralized system to allow permanent ownership of digital assets and creatures.
- Wrote the specs and created a C++ model for my team and later ported to Ethereum smart contracts using Solidity.

M Ticket Matcher [Python, HTML, CSS]

August 2019

- Centralized highly scattered student football ticket buy and sell offers with certified users.
- Used Django framework with PostgreSQL and Bootstrap with custom CSS to be deployed on Heroku.
- Hosted 50+ offers and 200+ contact requests within a month.

Awards, Achievements, and Activities

- o Programming Languages: C++, Python, Java, HTML/CSS, Ocaml, Javascript, VBA
- o Chosen as one of 20 Gartner Sophomore Leadership Summit Sophomore Scholars.
- o Invented **2 patent-pending** items on smartphones storage and battery and reached out to the VP of Product Development of companies.
- Won \$3,000 at Terminal Live hosted by Correlation One.
- Won \$4,500+ for "Tokenized voting" project through Optimize.
- o Selected as a Siemens Research Competition semifinalist from 1800+ international projects for a paper on tRNA evolution.
- Weekly volunteering at UM hospital as a member of the only philanthropic acapella group on campus.