

# Ian Shin

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## EDUCATION

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### University of Texas - Austin

Aug. 2019 – May 2023

*Computer Science, B.S. / Mathematics, B.S.*

*GPA: 3.75*

- Coursework: Calculus II, Data Structures, Discrete Mathematics, Computer Architecture, Probability and Statistics, Competitive Programming, Linear Algebra, Operating Systems, Differential Equations, Computer Networks, Natural Language Processing

## EXPERIENCE

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### Lockheed Martin

May 2021 – Aug. 2021

*Incoming SWE Intern*

### UT Computational Visualization Center

May 2020 – Present

*Undergraduate Researcher*

- Predicted optimal protein folding configurations and trained deep Markov models for medical research.
- Updated legacy software (*TexMol - 2011*) by recompiling with updated dependencies and rewriting CMake files.

### Fretail Hackers (UT Organization)

Jan. 2020 – Present

*Tech Team*

- Created new option in HackTX's web application for sponsors to view and download student resumes.
- Implemented functionality to send account credentials using Nodemailer and SendGrid.
- Hosted workshop on Git version control to over 100 attendees at HackTX, Texas's biggest college hackathon.

### Mettle Works

May 2020 – Aug. 2020

*Summer Intern*

- Created an intuitive full-stack web application from scratch to extract useful insights from unsorted data files.
- Analyzed tabular data to determine trends like medians and clusters within data using K-means.
- Displayed live results from a Flask backend to the React application using WebSockets.

### CMU Human-Computer Interaction Institute

June 2019 – Aug. 2019

*Summer Research Intern*

- Collaborated as part of the ClassInSight project to evaluate teachers using sensor-collected data in classrooms.
- Improved the developer dashboard with frame-by-frame video navigation and greatly optimized loading time.
- Added new interfaces to the user application that handle data deletion with Django, Python, and React.

## PROJECTS

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### streak

Jan. 2021 – Present

- Creating a full-stack web application that incentivizes users to maintain desirable streaks and habits.
- Built using MERN stack (MongoDB, Express.js, React.js, Node.js) and HTML/CSS.

### GluClose (*2nd Place Overall*)

Sep. 2018

- Created at PennApps XVIII in 2018.
- Designed a product that approximates blood sugar levels from saliva and mud and sends alerts to a mobile application if a threshold is passed.
- Collected data from an Arduino using the PySerial library and sent JSON-converted results to Firebase.

## TECHNICAL SKILLS

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**Languages:** Java, Python, JavaScript, C

**Tools/Frameworks:** HTML/CSS, React.js, Node.js, Express.js, PyTorch, NumPy, Pandas, jQuery, Flask, MongoDB, Firebase, REST, Linux, Unix, Git