

Ian Shin

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Education

The University of Texas - Austin, Computer Science, B.S. / Mathematics, B.S. / Minor in Business 2019 – 2023

- *Relevant Coursework*: Calculus II, Data Structures, Discrete Math, Computer Architecture, Probability and Statistics, Linear Algebra (ongoing), Operating Systems (ongoing), Competitive Programming (ongoing)
- *Activities/Organizations*: Freetail Hackers, UT MLDS, UT Filipino Student Association

Skills

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- *Languages* - Java, Python, JavaScript, C, x86-64 Assembly (elementary proficiency)
 - *Tools/Frameworks* - HTML, CSS, React.js, Flask, Node.js, Express.js, NumPy, Pandas, jQuery, React Native, REST, Git

Experience

Lockheed Martin, *SWE Intern (Incoming)* May 2021 – Aug 2021

Mettle Works, *Summer Intern* May 2020 – Aug 2020

- Developed a full-stack web application to extract useful insights from unsorted data files.
- Parsed tabular data to determine trends like median and clusters within data using Pandas, Numpy, and Sklearn.
- Sent continuously updating JSON results from a Flask backend to a React application using web sockets.

Computational Visualization Center, *Undergraduate Research Assistant* May 2020 – Aug 2020

- Predicted optimal protein folding configurations using deep reinforcement learning and AMBER.
- Gathered and uploaded cryo-EM and PDB files to TACC's Frontera supercomputer for training and simulation.
- Updated legacy software (*TexMol - 2011*) by recompiling with updated dependencies and rewriting CMake code.

Human-Computer Interaction Institute, *Summer Research Intern* Jun 2019 – Aug 2019

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

Projects

autocite May 2020 – Present

- Building a Chrome extension that finds and displays cited information on Wikipedia. Users can click quotes to instantly obtain citations using the EasyBib API. Created using JavaScript, jQuery, mark.js, and HTML/CSS.

GluClose (Second Place Winner) - PennApps 2018 Sep 2018

- Created at PennApps, the world's largest college hackathon. Designed a product that approximates a person's blood sugar levels from saliva and mud in emergency situations 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.

Extracurricular Activities

Freetail Hackers, *Tech Team (UT Organization)* Jan 2020 – Present

- Created a new option for hackathon sponsors to view and download student resumes using Angular.js & HTML.
- Implemented functionality to send account credentials using Nodemailer, SendGrid, and SMTP transport.
- Hosted workshop on version control using Git to over 100 attendees at HackTX, Texas's biggest college hackathon.

World Mission Frontier, *Instructor & Curriculum Designer (Kigali, Rwanda)* May 2016 – 2019

- Wrote curriculum, created projects, and traveled to Kigali, Rwanda every summer to teach coding and basic robotics with Raspberry Pi and Python to Rwandan students.