

Ian Shin

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Education

The University of Texas - Austin , Computer Science, B.S. / Mathematics, B.S.	2019 – 2023
<ul style="list-style-type: none">• <i>Relevant Coursework</i>: Calculus II, Data Structures, Discrete Math, Computer Architecture, Probability and Statistics, Linear Algebra (ongoing), Operating Systems (ongoing), Competitive Programming (ongoing)• <i>Activities/Organizations</i>: Freetail Hackers, UT MLDS, UT Filipino Student Association	

Skills

- *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 , <i>SWE Intern (Incoming)</i>	May 2021 – Aug 2021
Computational Visualization Center , <i>Undergraduate Research Assistant</i>	May 2020 – Present
<ul style="list-style-type: none">• 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 (<i>TexMol - 2011</i>) by recompiling with updated dependencies and rewriting CMake code.	
Mettle Works , <i>Summer Intern</i>	May 2020 – Aug 2020
<ul style="list-style-type: none">• Developed an intuitive full-stack web application to extract useful insights from unsorted data files.• Analyzed tabular data to determine trends like median and clusters within data using Pandas, Numpy, and Sklearn.• Sent live updating JSON results from a Flask backend to a React application using web sockets.	
Human-Computer Interaction Institute , <i>Summer Research Intern</i>	Jun 2019 – Aug 2019
<ul style="list-style-type: none">• 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 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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 , <i>Tech Team (UT Organization)</i>	Jan 2020 – Present
<ul style="list-style-type: none">• 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 , <i>Instructor & Curriculum Designer (Kigali, Rwanda)</i>	May 2016 – 2019
<ul style="list-style-type: none">• 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.	