

Ian Shin

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Education

The University of Texas - Austin , Computer Science, B.S. / Minor in Business	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 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
Mettle Works , <i>Summer Intern</i>	May 2020 – Aug 2020
<ul style="list-style-type: none">• Developed a full-stack web application for extracting useful insights from unsorted data files.• Parsed tabular data with pandas & determined outliers, entropy, and clusters within data points using numpy.• Incorporated WebSockets to send results from a Flask/Python application to a React frontend.	
Computational Visualization Center , <i>Undergraduate Research Assistant</i>	May 2020 – Aug 2020
<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.	
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 which evaluates teachers using sensor-collected data in classrooms.• Updated the developer's dashboard with frame-by-frame video navigation and optimized loading time using React.• Added new sections to the user's 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 directly-cited information on Wikipedia. Users can click results 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.	
Vault - LAHacks 2019	Mar 2019
<ul style="list-style-type: none">• Built a stock-sharing web application that allows a pair of investors across income groups to invest together, thereby lowering the barriers of entry to investing. Wrote a Node.js backend using Express.js and stored data to Firebase.	

Extracurricular Activities

Freetail Hackers - <i>Tech Team</i>	Jan 2020 – Present
<ul style="list-style-type: none">• Incorporated a new page 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.	
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.	