Ian Shin

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EDUCATION

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

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.

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.

Freetail 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.

PROJECTS

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

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