

# Ian Shin

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## EDUCATION

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### University of Texas at Austin

Aug. 2019 – May 2023

*Computer Science, B.S.*

*GPA: 3.79*

- Data Structures, Computer Architecture, Competitive Programming, Linear Algebra, Operating Systems, Computer Networks, Natural Language Processing, Algorithms, Neural Networks, Artificial Intelligence, Data Mining, Programming for Performance

## SKILLS

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

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

## EXPERIENCE

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### Google

Aug. 2022 – Nov. 2022

*Incoming Software Engineer Intern*

### Coinbase

Jun. 2022 – Aug. 2022

*Incoming Software Engineer Intern*

### Lockheed Martin

May 2021 – Aug. 2021

*Software Engineer Intern*

- Collaborated in agile environment to build a cloud (AWS) data ingest & routing service with multicast capability.
- Containerized microservices with Docker Compose and implemented inter-service communication with Redis.
- Migrated Flask web server to Node.js, improved REST API, and created unit tests for CI/CD pipeline.

### Freetail Hackers (UT Organization)

Jan. 2020 – Present

*Tech Team*

- Developed web & mobile applications and a Discord Bot for organizing and running hackathons.
- Worked on components for filtered searching, email sending, and database updating for MERN stack applications.
- Hosted multiple workshops on Git version control and Python at HackTX, Texas's biggest collegiate hackathon.

### Mettle Works

May 2020 – Aug. 2020

*Software Engineer Intern*

- Designed and created an intuitive web application to extract useful insights from unsorted data files.
- Processed nginx data with pandas and NumPy to determine trends within data using K-means clustering.
- Utilized Flask, React.js, and WebSockets to display live calculations and results from analyzed data.

### CMU Human-Computer Interaction Institute

Jun. 2019 – Aug. 2019

*Summer Research Intern – ClassInSight Project*

- Improved developer dashboard with frame-by-frame video navigation and greatly optimized image loading time.
- Added new interfaces and endpoints to web application for data deletion with Django, React.js, and PostgreSQL.

## PROJECTS

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### BERT for NER

- Performed Named Entity Recognition by fine-tuning a base DistilBERT model and creating a custom model with BERT, BiLSTM & CRF layers using HuggingFace, PyTorch, and NumPy. Trained on Twitter dataset and wrote extensive analysis and ablation study as part of project.

### streak

- Created a web application that incentivizes users to maintain desirable streaks and habits using MongoDB, Express.js, React.js, and Node.js. Incorporated JSON web tokens, cookies, and hashed passwords (bcrypt).

**GluClose (2nd Place Winner):** <https://devpost.com/software/glucose>

- Built at PennApps XVIII in 2018; placed **second overall** out of over 200 teams. Constructed a device that approximates blood sugar levels from saliva and mud and notifies a mobile application by sending data from an Arduino using the PySerial library and collecting JSON-converted results in Firebase.