

Ian Shin

ian1780@gmail.com | [linkedin.com/in/ianshin](https://www.linkedin.com/in/ianshin) | github.com/ian1780

EDUCATION

University of Texas at Austin

Aug. 2019 – May 2023

Computer Science, B.S. & Mathematics, 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

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

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

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.