

ELLIS TRAN

Contact

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📍 Pittsburgh,
Pennsylvania
in ellis-tran/

🌐 EllisTran

Education

University of Pittsburgh Jan. 2022 to Current

MS Bioengineering, Neural Engineering
Expected Graduation: May 2023
Concentrations in Brain Computing Interfaces and Neural Tissue Interfaces
Currently Enrolled in: Microfab Neural Interface Devices, Flexible Electronics, Stat Learning & Data Science

Carnegie Mellon University Jan. 2022

As a University of Pittsburgh student, I will be taking Statistical Models of the Brain through the PCHC program at Carnegie Mellon University

University of Arkansas Aug. 2017 to Dec. 2021

BS Computer Science 2021
GPA: 3.33
Relevant Coursework: Computer Graphics, Linear Algebra, Operating Systems, Engineering Statistics, Data Structures, Software Engineering, Database Management Systems

Yonsei University Aug. 2020 to June 2021

BS Computer Science
Studied abroad at Yonsei University
Relevant Coursework: Algorithms, Computer Vision

Skills

PROGRAMMING LANGUAGES & FRAMEWORKS

Swift (iOS)
Python
JavaScript/Typescript
C++
Flutter/Dart
Java
Angular
React Native
Redux
R

DATABASE MANAGEMENT SYSTEMS

SQL
PL/SQL
Firebase/Firestore

OTHERS

Cell Cultivation
Animal Dissection
Git
UNIX
Agile Development

LANGUAGES

English
Vietnamese
Korean

Research & Projects

Biomedical Engineering Research Assistant

July 2021 to Dec. 2021

- Assisted Dr. Jeffrey Wolchok in the Biomedical Engineering department and several graduate and undergraduate researchers to measure how extracellular vesicles affect **muscle tissue regeneration**
- Dissected multiple rats' hind limb and extracted bone marrow cells to observe stem cell growth
- Cultivated and observed **cell growth**, as well as gained real-life lab experience

Biological Image Processing Research Assistant

Jan. 2019 to May 2019

- Assisted Dr. John Gauch and Dr. Fiona Goggins at the University of Arkansas in the creation of detection software using various **computer vision** algorithms such as edge tracing, Gaussian filtering, and image inversion to locate and count different types of **stromules** in microscopic images of plant cells
- Evaluated and utilized Dr. John Gauch's image analysis library in C++ to determine which techniques would be best to discover and measure the length and shape of stromules

VacCheck

Jan. 2021 to Dec. 2021

- Led a team of **five** computer science seniors for a senior design project to allow users with **COVID-19 vaccinations** to enter businesses and events via a generated **QR code** to allow for a safe transition from the pandemic
- Developed the project in **React** for web, **Flutter** for cross-platform mobile, and **Firebase** for the database
- Designed **data flow** and **architecture** between health professionals, businesses, and users
- Divided tasks up among the team members to efficiently complete the application

iDeal

Dec. 2017 to May 2019

- Lead a team in the innovation of a student ID application at the University of Arkansas
- Developed an iPhone and Android application in **Swift** and **Java** to provide university IDs on smartphones for students and faculty
- Generates **barcode** and **QR code** unique to each student based on their student ID
- Wrote a TCP server in **Python** to read and write JSON files that acquires specific data types to be sent to the mobile application

Employment

J.B. Hunt Transport Services, Inc

Application Development Intern

Lowell, Arkansas

Oct. 2018 to May 2019, Sept. 2021 to Dec. 2021

- Used **Angular** to make bug fixes as well as to develop efficient features for the **Platform** application
- Created a J.B. Hunt Hackathon mobile application using **React Native** and **Redux**
- Utilized Google's **Firestore** service to act as a database for all of the teams' data
- Created and debugged an algorithm to determine the ranking of the teams
- Created 70+ dynamic email templates using the HTML framework, **MJML**

Asimula

Software Engineering Intern

Seoul, South Korea
Jan. 2021 to July 2021

- Developed Igloo, a new mobile application built in **Flutter** for users to meet new people in a group setting
- Assisted in creating the backend and database utilizing **Firebase** and **Firestore Functions**
- Architected the main messaging and matching feature along with the notification backend
- Implemented multiple build environments for development, staging, and release to avoid developing on release data
- Successfully released an Alpha and Beta version of Igloo

L3Harris Technologies

Software Engineering Co - Op

Greenville, Texas
Aug. 2019 to Feb. 2020

- Assisted in managing **databases** to convert it to a newer and more efficient architecture using **SQL** and **PL/SQL**
- Implemented metadata, procedures, and views to assist in the backup and restore processes of previous architectures into the current architecture
- Created numerous automated tests and scripts using **Python**, **Fabric**, and **Bash** to ensure that previously created processes are verified and cooperating with new features
- Helped integrate automated testing into the Jenkins pipelines
- Assisted and taught teammates unfamiliar with **Git** to have a comprehensive understanding of version control using the rebase method

Paycom

Software Development Intern

Oklahoma City, Oklahoma
May 2019 to Aug. 2019

- Created and optimized features to the mobile Paycom application in **Swift**
- Implemented **machine learning** techniques using user statistics to create new functions for users to utilize
- Enacted a new centralized logging system using **Realm Swift** to log various types of objects and data
- Conducted meetings with **Product Management** to further implement these features into production
- Presented the project to the CEO and CIO of Paycom

University of Arkansas College of Engineering

Peer Mentor

Fayetteville, Arkansas
Apr. 2018 to May 2019

- Assisted 10 first year engineering students ease the transition from high school to college
- Met weekly with students to answer questions about academics and extracurricular activities

Awards

The Walton Family Foundation Board · Arkansas Companies Engineering Intern Program for Technology Scholarship

Sept. 2021

Two time recipient of a \$1500 scholarship awarded to students who intern for an engineering company based in Arkansas

University of Arkansas College of Engineering · Porter Stone Scholarship Award

Apr. 2021

\$1000 scholarship is awarded to students who have completed three or more internships/coops while being a student in the College of Engineering at the University of Arkansas

University of Arkansas College of Engineering · Engineering Symposium Best Presentation

Apr. 2018

Won "Best Presentation" for iDeal at the 2017-2018 Honors Innovation Section of the Engineering Symposium