Jason Chen

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EDUCATION

University of Florida — **Gainesville, FL**

Dual Degree: BS in Computer Science & Statistics — *Fall 2017 - **Spring 2021** (**Expected Graduation**)*

- GPA: 3.98/4.00
- Coursework: Competitive Programming, Data Structures and Algorithm, Operating Systems, Computer Networks, Numerical Analysis, Digital Logic, Machine Learning, Stochastic Processes

TECHNICAL SKILLS

- **Proficient Programming Languages** - C/C++, Java, JavaScript, LaTeX, Matlab, Python, R, TypeScript
- **Frameworks/Technologies** - Angular, FireStore, Google Cloud, Git, PyTorch, React-Redux, Scikit-learn, TensorFlow

EXPERIENCE

Software Engineer Extern — **Gainesville, Florida**

InfoTech, LLC — *Spring 2020*

- Developed a full stack web application based on remaking a film clip in real-time
- Reproduced the coloring work with the current state-of-the-art semantic segmentation algorithms inspired and reiterated.

Software Engineer Intern — **Sarasota, Florida**

Imerza, Real Estates Developments — *Summer 2019*

- Traffic Analytics: Path Tracking, Heat Mapping, Occupancy, Capture Rate
- Developed Real Time Object Detection **ReactJS** web API on high resolution pixel-streamed video frames
- Improved deep learning models for semantic segmentation of satellite imagery
- Customized and retrained core **TensorFlowJS** models to optimize performance

Undergraduate Research Assistant — **Gainesville, Florida**

Li Lab, NSF Center for Big Learning — *Spring 2019 - Present*

- CVPR 2020 - **Federated Learning** on Localization
- **DeepEyes**, Research Team on Self-driving Object Detection, Tracking, and Prediction Collaborating with the Mechanical Engineering Department
- Built the environment for multiple experiment settings for running Benchmarks on the KITTI datasets

Computer Science Teaching Assistant — **Gainesville, Florida**

Computer and Information Science and Engineering — *Spring 2018, Fall 2018, Spring 2019*

- Courses : Computer Organization and Discrete Math
- Made **ARM Cortex-A8** and **MIPS** assembly projects, Write Instruction Guides for assignments and exams

RECENT PROJECTS

AirPick — *CSA 2020*

- Built an airport pickup service platform which served more than 1000 students. (http://airpick.uflcsa.org)
- Maintained **AngularJS** as frontend framework and UI-Router to handle front-end routers and URL changes on the client-side
- Developed **RESTFUL API** for backend CRUD operations with **Express.js** and **Mongoose**
- Implemented server-side caching with **Express.js** that lowered load latency by 30%
- Featured with an admin view and E-mail monitoring system using **NodeJS** that notifies the admins when a user makes multiple requests within a minute and enabled canceling requests feature to prevent fraud

InMotion — *HackDuke 2019*

- An interactive full stack application that tracks composition of your emotional status over time
- Made with **Google Cloud API** and integrated with **MongoDB** to maintain and generate customized reports

Waste.AI — *Fall 2018 - Spring 2019*

- A software that identifies object using visual analysis based on a deep learning neural network
- Enabled large-scale Automated Management of Recyclable and Problematic Materials in Discarded Construction Debris
- Improved **Pytorch** ResNet on 4 separate data sets provided by the liaison: 10,167 images, 13 classes of recyclables
- Adopted LabelBox for manual segmentation and annotation

Ubuntu Helpdesk — *HackGT V 2018*

- A chatbot that answers questions about the Ubuntu OS, **Flask** web app for an user interface that eases interaction with the chatbot
- **TensorFlow**'s seq2seq RNN model trained on **Google Cloud Engine**

Image Translator — *VandyHacks V 2018*

- Developed a Chrome Extension that instantly translates text on embedded images. vanilla **HTML**/**CSS**/**JavaScript**, and **Google Cloud APIs**
- Identify text in the target image with **OCR** (**Cloud Vision API**) then translate text with **Translation API**

AWARDS

- United States of America Mathematical Olympiad (**USAMO**) Qualifier, 2016
- International Collegiate Programming Contest (**ICPC**) South East Regional 2nd Place Winner, 2019
- Gator TitleTown Scholarship Winner, 2017
- University Economic Society Spring Investment Challenge Winner, 2019

LEADERSHIP

UF Programming Team Lead — *Fall 2019-Present*

- Competed in ACM Programming Competitions focusing in data structures and algorithms
- Participated in regular practices and meetings to prepare for competitions
- Led meetings and taught competitive programming topics such as algorithm complexity