Justin Jiang

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EDUCATION

Cornell University, College of Arts & Sciences, Ithaca, NY *2023 (Expected Graduation)*
Bachelor of Arts, Computer Science Major | GPA 4.1

SKILLS

Programming: Java (2 yrs), Python (1.5 yr), C++ (1 yr)
Git (1.5 yr), Kotlin (1.5 yr), JS/React (0.5yrs)

CAD: PTC Creo (4yrs), Fusion 360 (1yr)
Languages: Chinese (Proficient), Spanish (Intermediate)

RELEVANT COURSEWORK

Functional Programming (OCaml) • Artificial Intelligence • OOProgramming & Data Structures • Discrete Structures • Python • Intro to Android (TA) • Data Driven Web Apps • Linear Algebra • Engineering Statistics • Macroeconomics

RELATED EXPERIENCES

Nokia – 5G Radio Frequency Software Developer Intern *June 2020 – August 2020*

- Embedded software development in C++ production code for low-level device drivers and configuration tools
- Developed and improved Python automation tools for testing FPGA architecture and antenna module hardware

Reziew – Machine Learning/Sentiment Analysis Intern *June 2020 – September 2020*

- Utilized SciKit Learn, TensorFlow, and Spacy to train and fit a sentiment analysis model for online product reviews
- Implemented lemmatization, deep-learning, and various vectorizing approaches to improve model accuracy by 15%
- Used JS/d3 to develop a tool to dynamically generate force simulated data visualizations

FLATLAY – Android Developer Intern *June 2020 – August 2020*

- Integrated RxJava 2.0 asynchronous task handling and Retrofit networking/caching to improve app operating speed
- Implemented in-app Facebook and Instagram login authentication and image sharing

Cornell Business Analytics – Project Manager *September 2019 – Present*

- Managed a team to help develop an end to end encrypted telemedicine video platform along with a ReactJS frontend
- Worked with a venture capitalist firm to create a Python system that utilized machine library Sklearn and web-scrapping library BeautifulSoup to train and fit a model to predict tech-startup investment potentials

Cornell AppDev – Android Developer *September 2019 – Present*

- Developed and designed Kotlin-based bus locating Android application that implements MVP architecture with RxJava state-management and OkHttp networking. The app supports over 1000 unique Ithaca community users.
- Created frontend media application that integrated Kotlin, RxJava with a GraphQL backend using Apollo

ADDITIONAL EXPERIENCES

FIRST Robotics Team – Design/CAD Lead *June 2008 – June 2019*

- Led the iterative design process of the integration of the robot's electrical and mechanical components
- Implemented image-detection functionality during autonomous driving utilizing TensorFlow/Keras libraries

Senate Campaign – Campaign Organizer *June 2020*

- Coordinated the campaign promotion and data analysis of over 5000 voters across 3 counties spanning 2 weeks

PROJECTS

Spaced-Out

- OpenCV Python program that made real-time predictions of whether people were wearing masks and socially distanced
- Keras deep neural network model trained on 600 (one-hot encoded labeling utilizing SKlearn) face-mask images capable of differentiating whether someone is wearing a mask with 98% accuracy

Ingredible

- Android app with Java frontend and a Python backend that utilized Google Cloud Vision Auto-ML to identify cooking ingredients from pictures/receipts and present users with popular recipes that incorporated those ingredients

RxJavaRetrofitRoom

- Android app that uses Retrofit networking, RxJava 2.0 asynchronous-integration, and Room libraries for caching

INTERESTS

Creating Android Apps • Penny Stocks • Data Visualizations • Acoustic Guitars • Dad Jokes • Tennis • Morning Stretches