

Chunjun Jia

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Education

Georgia Institute of Technology

Atlanta, GA

B.S. IN COMPUTER SCIENCE

Aug. 2016 - May. 2020

- Concentration: Intelligence & Information Internetworks
- Extracurriculars: Alpha Kappa Psi (Fundraising & Creative Marketing Director), RoboJackets (Sub-team Battlebots)
- Related Coursework: Machine Learning, Computer Vision, Robotics & Perception, Database Systems, Computer Networking
- Honors & Awards: President's Undergraduate Research Awards - Awarded \$1500, Dean's List

Experience

NCR Corporation

Atlanta, GA

SOFTWARE ENGINEERING INTERN

May. 2019 - Aug. 2019

- Created tracking functionality for customer activities with NCR Silver products — a POS system used by over 30,000 businesses.
- Built the backend of an analytical dashboard using Python Flask framework and SQL queries.
- Refactored over 1000 lines of Android codebase to Kotlin/Native to provide unified business logic and cross-platform functionality.
- Developed a REST API for an internal application that registers and tracks testing devices for developers and QAs.

Georgia Tech High-Performance Architecture Lab

Atlanta, GA

RESEARCH ASSISTANT

Aug. 2018 - Present

- Achieved System Parallelism in Deep Neural Networks on low-performance robots.
- Led a sub-team of 5 people to implement algorithms on robotic platforms for experiments and demos.
- Conducted 4 conference poster sessions, demonstrations, and papers on the projects.
- Applied principles of Computer Architecture, Deep Learning, IoT, and Embedded Systems during research.

Huawei Technologies

Shenzhen, China

SOFTWARE ENGINEERING INTERN

May. 2017 - Jul. 2017

- Tested the compatibility of Linux distributions (RedHat, SUSE, Debian, etc.) with Huawei servers.
- Improved testing efficiency by over 50% through writing shell scripts to automate testing procedures.
- Delivered three complete testing reports with detailed records of testing procedures and solution follow-ups.
- Practiced DevOps approaches and Linux OS operations during work.

Publications

Practice and Experience in Advanced Research Computing (PEARC '19)

Chicago, IL

CHARACTERIZING THE EXECUTION OF DEEP NEURAL NETWORKS ON COLLABORATIVE ROBOTS AND EDGE DEVICES

July. 2019

- Authors: Jia, C., Merck, M., Wang, B., & Liu, L. et al. (2019)

Projects

SmartViz

Atlanta, GA

SCREW SPECIFICATIONS IDENTIFICATION APP - FLUTTER / COMPUTER VISION

August. 2019

- Exploited Keras and OpenCV to identify the screw thread sizes and types from a photo input.
- Created the UI using Flutter to exercise cross-platform development methodologies.

Microsoft Malware Prediction (Bronze - Top 9% of Leaderboard)

Atlanta, GA

DATA SCIENCE COMPETITION - KAGGLE

March. 2019

- Applied gradient tree boosting and feature engineering to predict the probability of malware (0.642AUC).
- Utilized sparse matrices (CSR) to reduce memory footprint by a factor of 2 while improving efficiency.

OASIS

Atlanta, GA

HOMELESS SHELTER APP - ANDROID

May. 2018

- Created an Android app for homeless people to find and to check into the nearest shelters with available spaces.
- Implemented Google Maps API, Firebase API for direction finding and database storage.

Skills

Programming Python, Java, C, MATLAB, SQL, JavaScript, Kotlin, Swift

WebDev Node.js, Angular, React, Flask, HTML, CSS

Libraries & Tools Scikit-Learn, OpenCV, Tensorflow, Keras, Docker, Kubernetes, GCP, Firebase