

# Bingyao Wang

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## EDUCATION

### Georgia Institute of Technology

Bachelor of Science in Computer Science; GPA: 3.98/4.0

Atlanta, GA  
Expected May 2021

**Threads:** Information Internetworks & Intelligence

## EXPERIENCE

### Facebook, Inc.

Software Engineering Intern

Menlo Park, CA  
Summer 2020

- Developed an internal tool to help evaluate offline metrics(AUC, NE) of machine learning models
- Employed **SparseNN** to help improve **MSI**(meaningful social interaction) model of the Facebook app

### Georgia Institute of Technology

Undergraduate Research Assistant, Advisor: Prof. Thomas Ploetz

Atlanta, GA  
Jan 2019 - Present

- CBA Lab** member with focus on sensor-based human activity recognition
- Built an **Computer Vision** pipeline that tracked and extracted human pose from videos

### Bits of Good

Full Stack Developer

Atlanta, GA  
Jan 2019 - Jan 2020

- Engaged in web applications development with **ReactJS**, **ExpressJS** and **MongoDB**
- Built an online volunteer management portal system for local nonprofit organizations

## PROJECTS

- SSA Platform:** An online management platform for the Society for the Study of Affect
  - Led a team of 5 to build a **MERN** full stack online platform for an international academic group
  - Offered a convenient way of paying for membership, joining events and finding mentorship
- Risk:** A multi-user online board game
  - Created with **Scala Play** framework and **Javascript** to implement the classic Risk board game
  - Featured with distributed players by using **WebSocket** and responsive web interface by using **Bootstrap**
- FindTheSide:** An augmented reality IOS game
  - Developed on **ARKit** module with dynamic AR nodes to help users keep fit built with **Xcode**
  - Built within 36 hours in a team of 4 during the Hackathon with **Swift** language and created demos
- Biking:** An Android app on bicycle routes navigation
  - Provided users access to mark biking lanes as well as special points with **BaiduMap** API
  - Enabled users to store their data on their devices, and also upload them to the server.

## SELECTED PUBLICATIONS

### Characterizing the Execution of Deep Neural Networks on Collaborative Robots and Edge Devices

PEARC'19

Machine Learning and Artificial Intelligence Track

### Understanding the Power Consumption of Executing Deep Neural Networks on a Distributed Robot System

LSAF'19

Algorithms and Architectures

## LEADERSHIP

### Bits of Good

Operations Team

Atlanta, GA  
Jan 2019 - Jan 2020

- Connected our group with Georgia Tech College of Computing, communicated with local nonprofits to provide help from Georgia Tech and held events including Project Day and Demo Day

## SKILLS

- Languages:** Java, Python, C++, Scala, SQL, Swift, Hack, JavaScript (ES6+)
- Web/Database:** React, Redux, Node/Express, Play, HTML, CSS, MySQL, MongoDB
- Mobile:** IOS, Android, React Native
- Data Science:** Numpy, Pandas, Matplotlib, Scikit-Learn, Keras, Prophet