

# Nicolas Burgess

nicolas.r.burgess@gmail.com

---

## EDUCATION

---

**Georgia Institute of Technology**

Actively Pursuing

*Master of Science in Computer Science Candidate*

**The University of Georgia - Athens, GA**

May 2018

*Bachelor of Science in Computer Systems Engineering*

Honors: *magna cum laude* (GPA: 3.89/4.0)

## PROFESSIONAL EXPERIENCE

---

**T-Mobile**

Atlanta, GA

*Software Engineer*

December 2020 - Present

- Developing backend systems to support T-Mobile's IoT solutions and packaged products.

**Experient Group**

Atlanta, GA

*Developer*

July 2020 - November 2020

- Worked with a quick serve restaurant to develop a computer vision system to increase kitchen efficiency.

**Ford Motor Company**

Dearborn, MI

*IoT Research Engineer*

January 2020 - July 2020

- Evaluated emerging IoT technology by performing lab-based proof-of-concepts.
- Developed models in TensorFlow to perform transfer learning for audio classification.
- Leveraged LoRaWAN as a protocol to relay messages from edge devices to a remote Azure server.
- Created a ROS bridge to stream video files to a separate processing unit.
- Soldered and wired small electronic devices to serve as PoCs.

*Software Engineer*

July 2018 - January 2020

- Implemented software functionality for systems in Connected Vehicle: Over-the-Air updates to ensure successful software updates for in vehicle electronic control units.
- Developed a chunked upload process for transferring large software files.
- Implemented a Kafka queue so that downstream systems are aware of requests for software delivery.

**Oakland Community College**

*Adjunct Computer Information Systems Instructor*

August 2019 - December 2019

- Developed the curriculum and functioned as the primary instructor for CIS 2858: Web Systems Integration and Service Development.

**The University of Georgia**

Athens, GA

*Undergraduate Teacher's Assistant for CSEE 4230 Embedded Systems Design*

August 2017 - May 2018

- Guided students in learning assembly language and embedded concepts using HC11 microcontrollers.

## TECHNICAL SKILLS

---

- **Programming Languages:** Java; Python; React; Angular; C++; C; Assembly; SQL; JavaScript; Verilog
- **Software/ Other:** Azure; Linux; TensorFlow; Node; GraphQL; MATLAB

## PROJECTS & ACHIEVMENTS

---

### **Senior Design Competition: Best Computerized System or Software Design**

August 2017 – May 2018

- Designed a wireless environmental monitoring station in partner with Baldor Electric.
- Design included a physical device with humidity and temperature sensors.

### **Boy Scouts of America, Eagle Scout**

August 2009 - May 2014

## RELATIVE COURSE WORK

---

### **Graduate Intro to Operating Systems**

- Became well versed in multi-threaded and multi-process programming in C/ C++

### **Artificial Intelligence for Robotics**

- Covered methods in artificial intelligence pertaining to robotics and autonomous navigation.