

# Geunyoung (Tony) Choi (U.S. Permanent Resident)

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## EDUCATION

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### GEORGIA INSTITUTE OF TECHNOLOGY

Atlanta, Georgia | *June 2017-Present*

#### *Bachelor of Science in Computer Science*

Expected: *May 2021*

- **Concentrations:** Information Internetworks & Devices
- **Relevant Coursework:** Data Structure & Algorithms, Objects and Design, Systems and Networks, Digital Design, Intro to Info Security, Database Systems, Embedded Systems
- **Awards:** Dean's List (Spring/Fall 2018, Spring 2019), Zell Miller/Hatton Lovejoy scholarship recipient

## EXPERIENCE

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### AUGMENTED ENVIRONMENTS LAB

Atlanta, Georgia

#### *Web Dev Team*

*August 2019- Present*

- Currently working with the Web Dev Team creating an augmented-reality mobile web application for the Georgia Tech football games that would enhance the users experience at the games.
- Responsible for retrieving the live game data using ESPN's developer API and using the phone's GPS to position virtual objects in the stadium during the football games.
  - **Technology Summary:** JavaScript, ReactJS, A-Frame, HTML5, CSS3

### GEORGIA TECH POLICE DEPARTMENT

Atlanta, Georgia

#### *Web Developer*

*March 2019-Present*

- Designing and developing *FlyRight* and *Video Management System* web applications for Georgia Tech Police Department part-time during the school semesters and full-time for the Summer of 2019.
- Resolved memory corruption, improved efficiency, and reduced run time of Video Management System Bot by ~30% leveraging knowledge in algorithms, debugging, and integration testing.
- **FlyRight** web application allows users to register flights for their Unmanned/Manned Aircraft Systems on the Georgia Tech's Campus while the server notifies the dispatch of the upcoming flights.
- **Video Management System Bot** web application allows the Department to check all ~2000 campus security cameras daily for quality assurance. The Department originally intended to purchase a costly third-party service to do the same job, but the development of this software saved the Department ~\$100,000/yr.

#### **Technology Summary**

**Languages:** JavaScript, Python, HTML5, and CSS3

**Frameworks/Tools:** ReactJS, Vue.js, Django, Docker, MongoDB, Vuetify, jQuery

## SKILLS

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**Languages:** Java, Python, JavaScript, SQL, C, HTML5, CSS3

**Frameworks:** TensorFlow, ReactJS, Vue.js, Django, Express.js, Flask

**Databases:** MongoDB, MySQL, Microsoft SQL Server Management Studio

**Tools:** Docker, jQuery, Node.js, Visual Studio Code, IntelliJ IDEA, PyCharm, Android Studio

## Projects

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- **Rosie:** Smart Door Lock with face recognition built using Dlib, OpenCV, and GStreamer for authentication along with a voice interface built using Google Assistant SDK and DialogFlow.
- **Crime Analytics:** Allows the officers at the GTPD to view police reports and the analytics to better visualize the frequency/locations of specific crimes on campus
- **Counseling Web App:** Allows the Department to look at the call data sent to dispatch and Georgia Tech's Counseling Center to better prepare for emergencies on campus.
- **TonewallGT.com:** A personal website written with JavaScript, Bootstrap, HTML5, CSS3, and ReactJS framework.
- **Android Application:** Application written in Java on Android Studio for nonprofit organizations which allows users to find nearby places to either donate items to or buy items from and allows admins to manage inventories/stores.