

Yuji Takai

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EDUCATION

Georgia Institute of Technology, Atlanta, GA

August 2016 – May 2020 (Expected)

- B.S. Computer Science
- Concentration: Intelligence and Modeling & Simulation
- Faculty Honors Award (2016 – 2019)

GPA 3.96/4.0

SKILLS

- **Programming:** Java, Python, JavaScript, HTML, CSS, MATLAB, C
- **Frameworks/Tools:** Spring Boot, scikit-learn, Android, Firebase, AngularJS, Oracle PL/SQL, JQuery, Django, Ansible, Jenkins, MongoDB
- **Specialties** Machine Learning, Computer Vision, Numerical Analysis

WORK EXPERIENCE

Rakuten Inc | Tokyo, Japan

Application Engineer Intern

May 2019 – August 2019

- Released 5 bug fixes onto the production environment to remove manual inputs by hotel providers
- Refactored internal customer data REST API to reduce the average response time by 10%
- Prototyped an API that automates log data extraction from servers with 1/10 of time required by hand
- Created a stub of an external API to allow QA to test new API features on the staging environment
- Resolved 6 issues caused during the database migration project involving restarts of 2000 servers
- Listed 1000 cron commands by script to help the rescheduling of commands after database migration

CarVi Inc | San Francisco, CA

Software Engineer Intern

May 2018 – August 2018

- Developed a car-sharing platform authenticating the user to unlock a car using Android smartphone
- Built a website calculating sufficient auto insurance coverage by analyzing user's car and location
- Verified the accuracy of 30 unique user data collected by the company's IoT devices via the REST API
- Initiated the design and programming of the autonomous attendance taking robot for conferences
- Documented the entire user guide of the company's device to assist calibration by fleet companies

Mitsubishi FUSO | Kawasaki, Japan

System Integration Intern

June 2017 – August 2017

- Designed safety reaction sequences against 2 failure cases for eCanter, world's first light electric truck
- Compiled specification of each subsystem to complete 20% of the homologation document of eCanter
- Coordinated communications between different departments for integrating the systems of eCanter
- Flashed the software updates to the internal computer of 50% of the prototype vehicles of eCanter

PROJECTS

Junior Design Capstone, Atlanta, GA

August 2018 – April 2019

Fly Aware: Chrome Extension that estimates carbon emission in the process of booking flights

- Won second place for climate solution category of Convergence Innovation Competition Spring 2019
- Implemented the components for scraping booking websites and estimating flights' carbon footprint
- Upgraded the frontend to dynamically update the list of local charities based on the user's geolocation
- Tested the product with 47 users to receive feedback and improve the user interface of the product

Android Application, Atlanta, GA

January 2018 – May 2018

Buzzshelter: Android app that guides homeless people to shelters in Atlanta

- Integrated app with Firebase database to share the reservation status of shelters among different users
- Coded the user interface of the app to display the location and crowdedness of each shelter on the map