Taeyeong (Hayden) Kim

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EXPERIENCE

***Software Engineer, Machine Learning,* CRUNCHAPPS**   **Nov 2019 - Present**
- Implemented and improved machine learning models and their end-to-end pipeline from collecting and preprocessing data, to training and evaluating the results.
- Deployed and maintained back-end APIs for image processing tasks to optimize speed and memory.
- Built scripts in Python to automate routines for data preprocessing tasks.

***Research Assistant,* GEORGIA TECH**   **Sept 2016 – May 2018**
- Developed an Android application using proximity-based hardware to solve the 'bus-bunching' problem by improving the prediction of bus arrivals and departures with 99% accuracy.
- Implemented machine learning models to predict bus departures and arrivals based on features such as current traffic, time of day, and weather.

***Software Engineering Intern,* SECUREWORKS**   **Jan 2017 – Aug 2017**
- Developed the tools and infrastructure for the new internal product called Multi Purpose Logic Engine GUI for the Security Operation Center analysts.

***Software Engineering Intern,* DELL SECUREWORKS**   **May 2015 – Aug 2016**
- Prototyped the location awareness functionality for a threat monitoring web application that provides reports of intelligence and analytics for customers.
- Troubleshot the portal functionality and performance issues on both the back-end services and user interface.
- Fixed and refactored controller files to increase the portal build efficiency by 70%.

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY (Georgia, USA)   **Aug 2014 – May 2018**

B.S. Computer Science (Concentration: Intelligence & Media)

FEATURED PROJECTS

***NeighborBonus,* HackGT 2017**   **Oct 2017**
- Developed an end-to-end web application model from scratch for earning apartment referral bonuses that 70% of the residents fail to claim using MEAN stack.
- Responsible for writing the search function on the main page, incorporating Google Map API to aid visualization of the map with dollar signs, and handling profile register/login/logout functions along with user authentication.

***Full MOBA Competition*, GEORGIA TECH**   **Aug 2017**
- Won 1st place (/40) in the round-robin tournament, where my Heroes and Minions AI python implementation beat those written by other students.

Honeycomb.us   **Oct 2016**
- Created a web application, which visualizes the grade statistics of all classes at Georgia Tech, including the instructors' grade distributions so that students can comprehend the difficulty of classes regarding their schedule.
- Contains 210K+ classes and 5K+ instructors since 1997.

SKILLS

Languages: Java, Python, JavaScript, HTML, CSS, MATLAB, SQL, LaTeX
Image Processing: OpenCV, scikit-learn, matplotlib, COCO API
Data Mining / Web Crawling: Python - numpy, pandas, scikit-learn, request, selenium