ANUNOY SIDDARTH DUSSA

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Education

Georgia Institute of Technology   Atlanta, GA

Bachelor of Science, Computer Science   *August 2016 – December 2020 (Expected)*

- Cumulative GPA: 3.78 / 4.0; Major GPA: 3.58 / 4.0
- Concentrations: Intelligence and People
- Awards: Dean's List (Spring 2017, Fall 2017, Fall 2018 – Fall 2019); Faculty Honors (Fall 2016, Spring 2018)

Experience

Georgia Institute of Technology   Atlanta, GA

Teaching Assistant | Data Structures and Algorithms   *January 2019 – Present*

- Held weekly office hours and graded Java homework assignments and exams for 700+ students
- Taught recitation to a class size of 40+ students explaining core concepts of data structures and algorithms
- Engaged in weekly review process over recitation, homework, and exam material to ensure correctness

Georgia Tech Research Institute   Atlanta, GA

Research Intern | Robotic Dexterous Manipulation   *May – July 2019*

- Developed a hybrid force position controller that follows a trajectory while maintaining a constant force
- Reimplemented high dimensional path planning research in the controller with C++ supported by ROS
- Optimized the frequency of the controller by 212.5% from 40 Hz to 125 Hz without any loss in accuracy

Augusta University *(github.com/adussa3/Brainy-Spelling-1)*   Atlanta, GA

Android Developer | Brainy Spelling 1   *August 2018 – May 2019*

- Worked on a team of 6 and developed an app that teaches preliterate children how to spell English words
- Constructed a low fidelity paper prototype for 17 activity screens and programmed 20+ layouts of the app
- Applied the Agile methodology and implemented vertical integration between the frontend and backend

Projects

Machine Learning – House Price Prediction *(arnabdey.github.io/MLProjectWebsite)*   *October – November 2019*

- Worked on a team of 5 and tested 5 machine learning models to predict house prices in Victoria, Australia
- Implemented a decision tree model to predict house prices with over a 60% accuracy in under 30 seconds
- Visualized real estate data by plotting the location of 99,000+ houses and color-coded them by their price

Android Application – QuakeReport *(github.com/adussa3/QuakeReport)*   *August 2019*

- Developed an app that displays a list of recent earthquakes as part of the *Beginning Android* Udacity course
- Retrieved earthquake JSON data from the USGS website to display their magnitude, location, date and time
- Implemented an asynchronous thread that runs a HTTP request in the background to obtain data from USGS

Android Application – Miwok *(github.com/adussa3/Miwok)*   *June – July 2019*

- Developed an app that teaches users the Miwok language as part of the *Beginning Android* Udacity course
- Utilized a list view to display each Miwok word and the MediaPlayer to play the pronunciation of the word
- Generated 38 Miwok words and organized them into the Numbers, Family, Colors, or Phrases category

Leadership

Georgia Institute of Technology Mastering Android Development (GITMAD)   Atlanta, GA

Senior Officer | Georgia Institute of Technology   *November 2018 – Present*

- Taught the fundamental basics and core concepts of Android development to 15+ students
- Updated the GITMAD website periodically by redesigning the layout and revising lesson plans

Skills

Languages	Java, Python, JavaScript, C, C++, Assembly, HTML5, CSS3, XML, SQL, SQLite
Frameworks	Bootstrap, Mapbox, JavaFX, ROS
Software	Adobe Photoshop, Inkscape, MATLAB, JetBrains IDEs, Android Studio, Gazebo
Coursework	Linear Algebra, Discrete Math, Multivariable Calculus, Object-Oriented Programming, Data Structures and Algorithms, Object and Design, Agile and Scrum, Probability and Statistics, Artificial Intelligence, Design and Analysis – Algorithms, Computer Organization and Programming, Machine Learning, User Interface Design