VISHWASHAH

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Education

Georgia Institute of Technology   **Atlanta, GA**
- B.S. in Computer Science (Intelligence and Information Internetworks), Honors Program   *Aug 2016 – Dec 2019*
- GPA: 3.68
- <u>Affiliations</u>: Alpha Kappa Psi (Business Fraternity), Ramblin' Raas (Nationally Competitive Dance Team),
- <u>Relevant Coursework</u>: Machine Learning, Robotics and Perception, Algorithms, Intro to Artificial Intelligence, Intro to Computer Systems and Networks, Computer Organization and Programming, Probability and Statistics, Discrete Math, Linear Algebra, Multivariable Calculus, Data Structures/Algorithms

Experience

Georgia Institute of Technology   **Atlanta, GA**
Undergraduate Researcher | Entertainment Intelligence Lab   *Aug 2017 - Present*
- Designed an AI approach based on the published Hoover ANN model to build a robust Mario game level generator
- Defined multiple "invention problems" to extend the concept of creative problem solving and designed agents to attempt such problems to demonstrate an artificially intelligent parallel to human creativity and contributed to a paper entitled "Creative Invention Benchmark" accepted to ICCC 2018

Georgia Institute of Technology   **Atlanta, GA**
Tutor | College of Computing   *Jan 2018 - Present*
- Tutored graduate students without previous programming experience in Python and programming basics
- Designed sample exercises and created examples to explain Python-isms and help students understand concepts
- Tutored undergraduate students in Intro to Object Oriented Programming and Discrete Math

Square   **San Francisco, CA**
Software Engineering Intern | Platform Engineering   *May 2017 - Aug 2017*
- Created infrastructure to automate asset tracking in a CMDB using a Rails app by reading data through Kafka feeds from Kolide and Facebook's osquery
- Consulted with several teams/individuals to discover their needs and evaluated requests per my constraints
- Gained exposure to shell scripting, backend services, Linux architecture, and systems infrastructure

Projects

Smart City Infrastructure | Research   *January 2017 - Present*
- Contributed to analyzing work zone traffic patterns using image classifiers and computer vision functions to retrieve valuable vehicle attributes from traffic camera footage
- Analyzed collected data to determine the change in factors like speed, offset, flow, and density

Charles | HackGT   *Oct 2017*
- Conducted sentiment analysis on Twitter and Reddit on a per topic basis using Python libraries
- Processed and visualized resulting data using D3.js, and deployed the application using Flask

RAS Madness   *Aug 2017*
- Conceptualized and developed a web app to serve as a prediction platform for national dance competitions
- Generated a Ruby on Rails JSON API backend and implemented a Bootstrapped Javascript frontend

Custom Alexa Skill   *July 2017*
- Developed a custom Alexa skill in Python and deployed using Flask
- Catered to the suggestions of a religious institution to offer relevant spiritual quotes
- Scraped tweets from a Twitter account using the Tweepy API

StreetLens | Holohack   *Dec 2016*
- Constructed a HoloLens app enabling street view previews of Google Maps directions
- Conceived an algorithm to retrieve data at a consistent time interval using the Google Maps and Street View APIs
- Collaborated with 3 others under a 36-hour time constraint while learning C# and Visual Studio

Skills

Programming: <u>Fluent</u>: Java, Ruby, Python, SQL | <u>Proficient</u>: C++, C#, Javascript, MongoDB
Languages: Spanish (intermediate), Hindi (fluent), Gujarati (native), English (native)
Software: Android Studio, IntelliJ, Eclipse, Adobe Photoshop, Adobe Illustrator, Adobe InDesign
Communication: Presentation, Public Speaking, Research Paper, Communication Design