Roger Correia
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EDUCATION:

- **Masters of Science in Computer Science from SUNY at Binghamton. Expected in May 2019.**
  - Courses: Algorithms, Operating Systems, Computer Architecture, Machine Learning, Advanced OOPS, Mobile Robotics, Wireless Sensor Networks, Programming on NodeJS.
- **Bachelor of Engineering in Computer Science from Mumbai University in May 2015.**
  - Courses: Soft Computing, Robotics and Artificial Intelligence, Computer Networks, Calculus.

CURRICULAR PROJECT(S):

- **ICS Live Android and Admin Panel:** Was a full stack project using Firebase, Android and AngularJS that casted live chess games from real chess boards of the Indian Chess School onto android phones.
- **Mobile Localization Using Wi-Fi RSSI:** I used K-nearest neighbors algorithm along with Dijkstra's algorithm to design an indoor localizer that detects indoor location using WiFi signal strengths and finds shortest path from given source to destination. Android and NodeJS with MongoDB.
- **Hefeweizen**, A Graph Engine built from scratch using processingJS during HackBU, a 24 hour hackathon. My task was to design the graph engine and write the mathematical equations.
- **Self Aware Traffic Management:** A traffic system full of toy cars that were equipped with camera, ultrasonic sensors and IR sensors. The cars localized themselves and a server, using a neural network, managed the flow of traffic. Used python client and server.

WORK EXPERIENCE:

- **RA at Binghamton University**   **Jan 20, 2019 - Present**

  - As a part of Robotics and AI group, I research on autonomous driving using a physics and traffic simulator called Carla. The task is to apply AI planning methods to driving.

- **Core Management Services**   **May 21, 2018 - Nov 30, 2018**

  - Built on the Smart Inspect app using ActionHero, VueJS, Node and PostgreSQL.
  - Introduced continuous integration/deployment to the team by setting up bitbucket pipelines for the development of SmartInspect.

- **Frost & Co**   **March 2016 - March 2017**

  - Built strong background in Android, NodeJs, AngularJs, React, MongoDB and Firebase Cloud Messaging Service. This was a start-up venture. Acquired clients, gathered requirements and managed a small team of developers towards meeting client's deadlines.

- **Neebal Technologies**   **July 2015 - March 2016**

  - Showed ability in production of REST APIs using J2EE with Hibernate ORM and MySQL server as well as front-end technologies like AngularJS and React.
  - Fluency in Shell and GIT by managing web app deployment on Amazon Web Services.

TECHNICAL COMPETENCIES:

- C, C++, Python, JAVA, Android and JavaScript (NodeJS, Angular and VueJS)