RAJ SHRIMALI

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Education: Georgia Tech | B.S. CS | Expected Graduation: 2020

- Focusing on artificial intelligence, modeling, and simulation
- Relevant coursework: Multivariable Calculus, Intro to Java, Object-Oriented programming fundamentals, linear algebra with abstract vector spaces
- 2 years of independent engineering research into autonomous navigation for unmanned aerial systems (UASs)

Skills

- Comfortable with GNU/**Linux**. Programming experience with **Python, Java, C, C++, JavaScript**, and **MATLAB**. Currently learning **Golang**. Used to interfacing programming languages with a database such as **MongoDB.**

Work Experience

03/2016–08/2016   **Technical Consultant, Telos Corporation** – Ashburn, Virginia
Responsible for distributed computing (Mesosphere) cluster setup and use with virtualization technology, distributed database development (using Python), webserver + frontend design (using NodeJS), and technical advice.

06/2015–09/2015   **Lead Intern, Telos Corporation** – Ashburn, Virginia
Developed business plans for Department of Energy cybersecurity-related technologies and presented them to a panel of venture capitalists, entrepreneurs, and scientists. Accountable for the project and responsible for presenting weekly progress reports to Telos executives.

06/2014–09/2014   **Intern, Telos Corporation** – Ashburn, Virginia
Directed the intern team in designing and presenting specific technologies. Involved use of data analytics with R and machine learning to perform predictive analytics of market performance. Other technologies written in Javascript/Node.js used natural language processing to interpret articles and search for specific targets throughout the internet.

Projects – All are available at https://github.com/scarca

- Stop Watch Including Clock: Co-developed a C++-based command-line stopwatch, timer, and clock as a simple utility for the command line.
- Odd2015/Campaign Clarity: Combine open data sources to create transparency in campaign finance. Currently only displays a table based on across party-lines voting patterns, but further development is planned. Backend written in Python, with data processing in Java, and webserver hosting with Node.js combined with Express.
- Fitso: Used NodeJS, interfacing with MongoDB to create the backend for an Android app that connects individuals who want to play pickup sports together.
- Dormy: App to make communication easier for roommates. See groceries, room usage status, and availability all in one place. Currently very new, and under development. Backend in Go, using the MongoDB database.

Accomplishments

- 1st Place in Computer Science and Mathematics, Orbital ATK Special Award, Air Force Award, IEEE award, and Intel Award at Loudoun County Regional Science and Engineering Fair 2015.
- 2nd Place in Computer Science and Air Force Award at Virginia State Science and Engineering Fair 2015.

Volunteering, Clubs, and Other Interests

- RESET Initiative, Inc: Launched an organization to bring better STEM education to elementary school students throughout Loudoun County, Virginia, with the goal of promoting STEM. Currently working with the school administration to widen scale of implementation.
- Clubs: Greyhat (cybersecurity), The Agency (artificial intelligence), Big Data Club, Programming Team, Student Alumni Association (student outreach)