

# Rukmal M. Weerawarana

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## Education

<b>Stevens Institute of Technology (SIT)</b> <i>Master of Science (MS) in Financial Engineering Candidate</i> (GPA: 3.6) <b>Awards:</b> Provost Master's Fellowship	<b>Hoboken, NJ</b>	<b>May 2019</b>
<b>University of Washington (UW) Foster School of Business</b> <i>Bachelor of Arts in Business Administration (BABA) in Finance</i> <b>Certificates:</b> Quantitative Fundamentals of Computational Finance	<b>Seattle, WA</b>	<b>Jun 2017</b>

## Work Experience

<b>Hanlon Financial Systems Laboratory (SIT Department of Financial Engineering)</b> <i>Graduate Laboratory Assistant</i> Facilitate the installation, maintenance, and instruction of various frameworks and tools pertinent to the financial sector that are available for use to general students in the Lab. Assist the development of the Stevens High Frequency Trading Simulator (SHiFT), by containerizing individual modules and creating orchestration runtimes to emulate the structure of financial markets using Docker and Kubernetes.	<b>Hoboken, NJ</b>	<b>Sep 2017 - Present</b>
<b>UWashingtton Hyperloop Team (UW College of Engineering)</b> <i>Business Management Team Lead, Impact Development Team, Controls Team</i> Contributed to the design, manufacturing, testing, and future ideation of a revolutionary transportation system that has the potential to significantly disrupt the commercial and consumer transportation sector. Led the Business Management Team to develop and deploy a highly successful crowdfunding campaign to raise funds, and source materials to engineer and construct one of the first-ever functioning Hyperloop Pods. Explored the transformative economic and social effect a hypothetical Hyperloop system could have on the Pacific Northwest. Represented the University of Washington at the inaugural <i>SpaceX, Inc.</i> Hyperloop Pod Competition ( <a href="http://spacex.com/hyperloop/">http://spacex.com/hyperloop/</a> ) in Hawthorne, CA. Placed 4 <sup>th</sup> in the United States and 6 <sup>th</sup> Globally, against an initial 1,700 team proposals.	<b>Seattle, WA</b>	<b>May 2016 – Aug 2017</b>
<b>ZocialGPA, Inc.</b> <i>Software Engineering Team Lead, Software Engineering Intern</i> Worked with and led a small group of engineers to design and implement the ZocialGPA social analytics products. Coded efficient algorithms used to calculate ZocialGPA scores using data from large, non-relational databases, while minimizing resource utilization to reduced operating costs for the company.	<b>Seattle, WA</b>	<b>Feb 2015 – Jan 2016</b>
<b>WSO2, Inc.</b> <i>Software Engineering Intern</i> Member of the Apache Stratos team, an open source Platform-as-a-Service (PaaS) framework.	<b>Sri Lanka</b>	<b>Jun 2014 – Sep 2014</b>
<b>Mullins Molecular Retrovirology Laboratory (UW Department of Microbiology)</b> <i>Undergraduate Research Assistant</i> Developed applications to determine mutation patterns in the DNA sequences of HIV patients to assist with targeted retroviral drug therapies. Statistical analyses of large genome sequences were employed to calculate highly accurate expected ranges of mutations.	<b>Seattle, WA</b>	<b>Apr 2014 – Aug 2014</b>

## Skills and Interests

### Technical Skills

**Programming and Scripting Languages:** R, Python, Java, JavaScript, Go, and Bash.

**Tools:** R Markdown, Jupyter Notebooks, LaTeX, Node.js, Amazon AWS, Google Cloud Platform, Theano, and TensorFlow.

### Research Interests

**Computer Science and Applications:** Cognitive Programming, Evolutionary Algorithms, Blockchain Applications.

**Physics:** Quantum Computers, Quantum Computation Education, Quantum Neural Networks, Optical Quantum Computing.

**Other:** Future Financial Stability, Scalable Market Structure, In-Vivo CRISPR Gene Editing, Quantitative Political Science, Bioethics.

### Peripheral Interests and Skills

**Skills:** Excellent communication skills, extensive public speaking, goal-oriented time management, excellent interpersonal skills.

**Interests:** Recreational reading, recreational basketball and racquetball, intellectual debate, the future.

**Work Authorization:** U.S. Citizen