Rukmal M. Weerawarana

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Education

Columbia University Online — **New York, NY** — **Dec 2018**
MicroMaster Certificate in Artificial Intelligence
Relevant Coursework: Machine Learning (*In* Progress, IP) and Artificial Intelligence (IP)

Stevens Institute of Technology (SIT) — **Hoboken, NJ** — **May 2019**
Master of Science (MS) in Financial Engineering Candidate (GPA: 3.8/4.0)
Relevant Coursework: Knowledge Engineering (4.0), Pricing and Hedging (4.0), Natural Language Processing (IP), Cognitive Computing (IP), Stochastic Calculus (IP)
Awards: Provost Master's Fellowship

University of Washington (UW) Foster School of Business — **Seattle, WA** — **Jun 2017**
Bachelor of Arts in Business Administration (BABA) in Finance
Certificates: Quantitative Fundamentals of Computational Finance (GPA: 3.7/4.0)

Work Experience

Hanlon Financial Systems Laboratory (SIT Department of Financial Engineering) — **Hoboken, NJ** — **Sep 2017 - Present**
Graduate Laboratory Assistant
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.

UWashington Hyperloop Team (UW College of Engineering) — **Seattle, WA** — **May 2016 – Aug 2017**
Business Management Team Lead, Impact Development Team, Controls Team
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 *SpaceX, Inc.* Hyperloop Pod Competition (http://spacex.com/hyperloop/) in Hawthorne, CA. Placed 4th in the United States and 6th Globally, against an initial 1,700 team proposals.

ZocialGPA, Inc. — **Seattle, WA** — **Feb 2015 – Jan 2016**
Software Engineering Team Lead, Software Engineering Intern
Coded efficient algorithms used to calculate ZocialGPA scores using data from large, non-relational databases, while minimizing resource utilization to reduce operating costs for the company.

WSO2, Inc. — **Sri Lanka** — **Jun 2014 – Sep 2014**
Software Engineering Intern
Member of the Apache Stratos team, an open source Platform-as-a-Service (PaaS) framework.

Mullins Molecular Retrovirology Laboratory (UW Department of Microbiology) — **Seattle, WA** — **Apr 2014 – Aug 2014**
Undergraduate Research Assistant
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.

Projects

Lunar CubeSat (UW Advanced Propulsion Laboratory) — **Seattle, WA** — **March 2015 – Jul 2015**
Designed and presented Software Architecture for the communication and on-board processing systems for the UW Lunar CubeSat to NASA and Lab personnel. Expected launch into Lunar orbit aboard NASA's Space Launch System on the Orion Spacecraft in 2020.

Skills and Interests

Technical Skills
Programming and Scripting Languages: R, Python, Java, JavaScript, Go, Bash.
Tools: R Markdown, Jupyter Notebooks, LaTeX, Node.js, Amazon AWS, Google Cloud Platform, Theano, 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.

Work Authorization: U.S. Citizen