Rukmal M. Weerawarana

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Education

Stevens Institute of Technology (SIT) — **Hoboken, NJ** — **May 2019**

Master of Science (MS) in Financial Engineering Candidate (GPA: 3.6)

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 (Major GPA: 3.0)

Certificates: Quantitative Fundamentals of Computational Finance (GPA: 3.7)

Work Experience

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

Graduate Laboratory Assistant

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.

UWashington Hyperloop Team (UW College of Engineering) — **Seattle, WA** — **May 2016 – Aug 2017**

Business Management Team Lead, Impact Development Team, Controls Team

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 *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

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.

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 analysis of large genome sequences were employed to calculate highly accurate expected ranges of mutations.

Skills and Interests

Technical Skills

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

Software Frameworks: R Markdown, Jupyter Notebooks, LaTeX, and Node.js.

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: US Citizen