# Education

|  |  |  |
| --- | --- | --- |
| **Stevens Institute of Technology (SIT)**   * *Master of Science (MS) in Financial Engineering Candidate* (GPA: 3.8/4.0) | **Hoboken, NJ** | **May 2019** |
| * **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**   * *Bachelor of Arts in Business Administration (BABA) in Finance* * **Certificates:** Quantitative Fundamentals of Computational Finance | **Seattle, WA** | **Jun 2017** |

# Work Experience

|  |  |  |
| --- | --- | --- |
| **Hanlon Financial Systems Laboratory (SIT Department of Financial Engineering)**  *Graduate Laboratory Assistant* | **Hoboken, NJ** | **Sep 2017 - Present** |
| * 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)**  *Business Management Team Lead, Impact Development Team, Controls Team* | **Seattle, WA** | **May 2016 – Aug 2017** |
| * 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.**  *Software Engineering Team Lead, Software Engineering Intern* | **Seattle, WA** | **Feb 2015 – Jan 2016** |
| * 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.**  *Software Engineering Intern* | **Sri Lanka** | **Jun 2014 – Sep 2014** |
| * Member of the Apache Stratos team, an open source Platform-as-a-Service (PaaS) framework. | | |
| **Mullins Molecular Retrovirology Laboratory (UW Department of Microbiology)**  *Undergraduate Research Assistant* | **Seattle, WA** | **Apr 2014 – Aug 2014** |
| 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

|  |  |  |
| --- | --- | --- |
| **Columbia University MicroMaster Program in Artificial Intelligence** | **New York, NY** | **Jan 2018 - Present** |
| * Currently completing requisite coursework in Machine Learning (IP) and Artificial Intelligence (IP). Expected completion in the Fall, with additional coursework in Robotics and Animation and CGI Motion. | | |
| **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. |