

Hyun Suk (Max) Ryoo

Education <https://www.hyunsuk-ryoo.com/education>

Expected May 2020 **University of Virginia, Charlottesville, Virginia**, B.A. COMPUTER SCIENCE & B.A. STATISTICS (BIostatISTICS).
Relevant Courses (CS): Database Systems (CS 4750), Algorithms (CS 4102), Computer Architecture (CS 3330), Program and Data Representations (CS 2150), Software Development Methods (CS 2110), Discrete Mathematics (CS 2102), Introduction to Programming (CS 1113), Intro to Data Science with Python (STAT 1559)
Relevant Courses (STAT): Introduction to Regression Analysis (STAT 3220), Elementary Linear Algebra (MATH 3351), Introduction to Probability (MATH 3100), From Data to Knowledge (STAT 3080), Introduction to Statistical Analysis (STAT 2120), Intro to Data Science with Python (STAT 1559)

Technical skills

Languages PYTHON, NODE Js, EXPRESS Js, JAVA, C++, SQL, PHP, GIT, L^AT_EX, MATHEMATICA, R, SAS
Databases Mongo DB, MySQL, Sqlite3
OS Unix/Linux, Windows
IDE Eclipse, Atom, Vi, Emacs, PyCharm, Visual Studio Code, Sublime, Proficiency in all Microsoft Office Suite, Anaconda

Working Experience <https://www.hyunsuk-ryoo.com/experience>

August 2018– Present **Data Science Contractor**, Manassas, Virginia.
AT S.W.I.F.T, (SOCIETY FOR THE WORLDWIDE INTERBANK FINANCIAL TELECOMMUNICATION)
Project: A Continuation of the Intern Project at SWIFT as a Database Intern. Incorporating Machine Learning to predict security violations to make the filtration process more accurate and more automated
August 2018– Present **Teaching Assistant**, University of Virginia.
Course: CS 4750 (Database Systems)
Course Description: Introduces the fundamental concepts for design and development of database systems. Emphasizes relational data model and conceptual schema design using ER model, practical issues in commercial database systems, database design using functional dependencies, and other data models. Develops a working relational database for a realistic application.
June– August 2018 **Database Developer Intern**, Manassas, Virginia.
AT S.W.I.F.T, (SOCIETY FOR THE WORLDWIDE INTERBANK FINANCIAL TELECOMMUNICATION)
Project: Developed a REST API for filtering and updating Security Violation logs. The project included making an interface with html/css front end with a Node js, Express js, Mongo db backend along with a Python and sqlite3 processor.
Business Value added: The API filters out Security Violations from k thousand line files to 100 lines. Made a database to contain all updates and reports of security violations so that no data is lost. Original time of completion (x hours or days) is now minutes
Sept 2014– Dec 2017 **Research Assistant**, University of Virginia, DEPARTMENT OF NEUROSCIENCE.
Experience in: 1) Creating Plasmid DNA, 2) DNA extraction techniques, 3) PCR and Gel electrophoresis, 4) Mouse surgery
Description: <https://www.hyunsuk-ryoo.com/shinlab>

Personal Projects <https://www.hyunsuk-ryoo.com/project>

June–Aug 2018 **Web-developer**, University of Southern California, SABAN RESEARCH INSTITUTE OF CHILDREN'S HOSPITAL L.A..
Temporary Link: <http://178.128.178.177:3000/>
Technologies Used: Node Js, Sqlite3, HTML/CSS
Description: Developed a web-service for the consultation service at University of Southern California (Biostatistics Core)
June–Aug 2018 **Web-developer**, University of Virginia, KSEA CENTRAL VIRGINIA CHAPTER.
Link: <http://www.uva-ksea.org>
Technologies Used: Node Js, Sqlite3, HTML/CSS
Description: Developed a web-service for KSEA at UVa, Central Virginia Chapter
July 2018 **Intern**, S.W.I.F.T, (Society for the Worldwide Interbank Financial Telecommunication), COMPANY HELD HACKATHON.
Github Link: <https://github.com/hyunsukr/SwiftEats>
Technologies Used: Node Js, Sqlite3, HTML/CSS
Description: Web application to order lunch on-line from your personal computer

Volunteer Experience <https://www.hyunsuk-ryoo.com/experience>

Sept 2013– May 2018 **Volunteer**, Madison house, Charlottesville, Virginia, MEDICAL SERVICES.
Volunteered in: 1) Providing care for patients at the Emily Couric Clinical Cancer Center, 2) Preparing Surgical Supplies for operations at the University of Virginia Medical Center, 3) Sales Assistant at the Auxiliary Center at University of Virginia Medical Center, 4) Volunteer experience of over **1,200 hours**

Extra-Curricular Activities <https://www.hyunsuk-ryoo.com/experience>

May 2018– Present **Vice-President**, Korean-American Scientists and Engineers Association, CLUB IN UNIVERSITY OF VIRGINIA.
Role: 1) Organize special speakers in the Engineering and Science field, 2) Create networking events for the students and faculty at UVa, 3) Create social events for people to interact and bond with one another, 4) Communicate with other organizations to plan events for the organization, 5) Create tech events for the members to get hands on experience with technologies.

June **Outreach chair**, Korean Student Association, CLUB IN UNIVERSITY OF VIRGINIA.
2017–May **Role:** 1) Communicate with other organizations to plan events, 2) Help with creating culture showcases and expo for the greater
2018 UVa community, 3) The club has a history of over 800 members with new member population of about 100 each year.

Languages

English	<i>Native Speaker</i>
Korean	<i>Native Speaker</i>
French	<i>Conversational</i>