

HYUN SUK RYOO

Programmer and Data Scientist

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EDUCATION

B.A. in Computer Science

University of Virginia

Aug 2016 – May 2020

Relevant Courses: Artificial Intelligence (CS 4710), Database Systems (CS 4750), Programming Languages for Web Applications (CS 4640), Machine Learning (CS 4501/4774), 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)

B.A. in Statistics (Biostatistics Concentration)

University of Virginia

Sept 2001 – June 2002

Relevant Courses: Statistical Machine Learning (STAT 5630), Data Visualization and Presentation (STAT 4310), Data Analysis with Python (STAT 3250), 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)

EXPERIENCE

Database Developer Intern / Data Science Contractor

S.W.I.F.T,

Jun 2018 – May 2019

Manassas, Virginia

- 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.

Teaching Assistant CS 4750 (Database Systems)

University of Virginia

Aug 2018 – Present

Computer Science Department

- 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.

Research Assistant,

University of Virginia

Sept 2014 – December 2014

Department of Neuroscience

- Experience in: 1) Creating Plasmid DNA, 2) DNA extraction techniques, 3) PCR and Gel electrophoresis, 4) Mouse surgery

VOLUNTEER/EXTRA-CURRICULAR EXPERIENCE

Vice-President

Korean-American Scientists and Engineers Association at UVA

May 2018– Present

University of Virginia

Outreach Chair

Korean Student Association at UVA

Jun 2017– May 2018

University of Virginia

Volunteer

Madison House at UVA

Sept 2013– May 2018

University of Virginia

For more information about these experiences please check out

<http://www.hyunsuk-ryoo.com/experience>

TECHNICAL SKILLS

Languages

Python R SAS Node Js
Express Js Java C++ C SQL
PHP Git LATEX Mathematica
x86

Databases

Mongo DB MySQL Sqlite3

OS

Unix/Linux Windows

IDE

Eclipse Atom Vi Emacs
PyCharm Visual Studio Code Sublime
Anaconda All Microsoft Office Suite

LANGUAGES

English ●●●●●

Korean ●●●●●

PROJECTS

Web-developer

KSEA at University of Virginia

June 2018 – Present

- Link: <https://www.uva-ksea.org>
- Description: <http://www.hyunsuk-ryoo.com/ksea>

Web-developer

Saban Research Institute of C.H.L.A

June 2018 – Aug 2018

- Temp Link: <http://178.128.178.177:3000/>
- Description: <http://www.hyunsuk-ryoo.com/usconsultation>

Hackathon

Swift Company Hackathon

June 2018

- Source Code: <https://github.com/hyunsukr/SwiftEats>
- Description: <http://www.hyunsuk-ryoo.com/swifteats>