HYUN SUK RYOO (MAX RYOO)

Machine Learning Engineer

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github.com/hyunsukr

EDUCATION

M.S. Data Science (Part Time)

University of Virginia - current

B.A. Computer Science (3.7) & B.A. Statistics (Biostatistics Concentration) (3.6) University of Virginia - Class of 2020

EXPERIENCE

Software Engineer

Capital One (Center For Machine Learning & Anti Money Laundering)

Aug 2020 - Current

Q McLean, Virginia

- Develop a belief propagation algorithm with Scala using graph database to determine risk scores of each bank customer to prevent money laundry.
- Develop a full stack application for clients to use to research outputs of above project.
- Served as a tech lead to develop a pipeline to pull from various database sources to mine large amounts of data to be available for many different downstream applications.
- Technologies Used: Scala, Spark, Pyspark, Python, Gremlin, Neptune, React, Flask, AWS

Junior Software Developer

Thinking with Tools, LLC

m Dec 2019 - Aug 2020

♥Charlottesville, Virginia

- Work together with a team to make new features and maintain data for a web application. Make a mobile/web-app with one codebase.
- Technologies Used: Ionic, Angular, Coldfusion, JavaScript, MS SQL Server, Postgress

Software Engineer Intern

Fannie Mae (Capital Markets Treasury CASH TMS L3 Team)

Jun 2019 - Aug 2019 (3 Months)

♥ Herndon, Virginia

- Developed a end to end Dashboard that tracks all Fannie Mae wire payments.
 The dashboard is integrated into the Capital Markets Treasury CASH TMS L3
 Team. The dashboard keeps tracks an average of net \$13 Trillion wire transactions a year. The dashboard makes it easier for employees to track problematic wires and see transactions easier on a day to day basis.
- Automated the Deployment Processes of Applications to one click deployment
- Developed a REST API for Calendar Date Services and ID Services
- Technologies Used: Spring, MS SQL Server, Oracle, Java, Python, Maven, HTML/CSS, JavaScript

Data Science Contractor / Database Developer Intern

S.W.I.F.T. (Innovation Lab / Database Development)

♀Manassas, Virginia

- Developed a REST API for filtering and updating Security Violation logs. The API filters out Security Violations from k thousand line files to 100 lines. Original time of completion (x hours or days) is now minutes. Continued to work on this project as a Data Science Contractor incorporating Data Science techniques.
- Technologies used: Node js, Express js, MongoDB, SQLite3, Python, HTML/CSS, Docker

PERSONAL DEVELOPMENT PROJECTS

Founder / Lead Developer

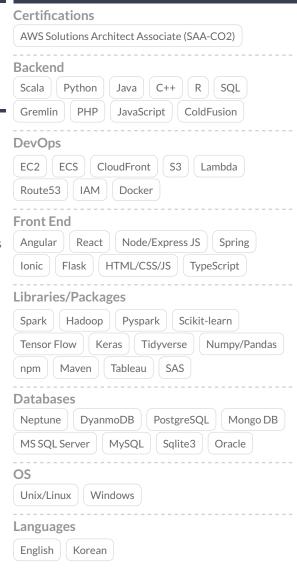
GAON Solutions

m Dec 2020 - Current

Ashburn, Virginia

• Main Developer for https://gaonsolutions.com/home

SKILLS



RESEARCH

Interests: Machine Learning, Model Analysis, Quantitative Methods

Research Assistant

Machine Learning and Data Mining in Psychology

Aug 2019 - May 2020 ♥UVA (Psychology)

 Research in the field of Psychology with technologies of Machine Learning and Data Mining with DTM and Text/Network Analysis

Data Engineer

Measure of Cognitive Ability Research

- Developed a Web-server and Web-application to maintain and process data from Measure of Cognitive Ability (MOCA) tests. The purpose of this research project is to develop a measure of cognitive ability and its scale of cognitive ability.
- Technologies Used: AWS, Wordpress, MySQL, Python, Scikit-learn, R, Tidyverse