Joowon Kim

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EDUCATION

University of Illinois at Urbana-Champaign   May 2021
Bachelor of Science, Computer Science and Economics   GPA: 3.54/4.0
Skills: Data Science, Web Development, Software Engineering, C++, Python, Javascript, Java, Git, Django, PostgreSQL
Coursework: Data Structures and Algorithms, Discrete Structures, Regression Analysis, Statistics, Differential Equations
Fall Coursework (Tentative): Computer Architecture, Algorithms and Models, Prog Data Science, Applied Linear Algebra

EXPERIENCE

State Farm
Software Engineering Intern   *May 2019 – August 2019*
- Constructed corporate data analytics portal using Javascript, Python, Django, PostgreSQL, JSON, and pandas
- Developed analysis tool in software, increasing the efficiency of data search functionality by 100%
- Redesigned information storage in PostgreSQL database to improve analysis for ~1000 data-layered maps
- 2nd biggest contributor to the application, to be used by 6,000+ State Farm executives to make corporate decisions

CS 196 at UIUC
Director of Project Management   *August 2018 – Present*
- Directing all the project managers for the software development groups at CS 196 Honors course
- Managing as scrum master using skills such as Python, Java, machine learning and front-end development
- Installed new grading system and hiring/interview methods improving the way quality project managers are accepted

Georgia State University
Software Research Intern   *May 2018 – August 2018*
- Helped implement optimized data pipeline processes, deployed through Docker platform and Java programming
- Identified core tech error which prevented entire program from functioning properly
- Documented thousands of lines of code in order to keep the program organized and legible

PROJECTS

AWS Email Bot   *July 2019*
- Built a Python script using libraries such as schedule and smtplib to develop a subscription-type email bot
- Running the script continuously for 100 days by implementing the Amazon Web Services' EC2 instance
- Implemented data structures supporting constant runtime, making user data processing easier and more efficient

BriovaRx Patient Center Application   *February 2019*
- Placed Top 3 for UnitedHealth Group's Challenge at HackIllinois 2019
- Designed using Apache Cordova and Javascript, with separate p2p data channel video chat demo with WebRTC
- A proof of concept to be potentially used for self-diagnosis of 1000s of chronically diseased patients.

Cryptocurrency Arbitrage Web-Application   *January 2018 – August 2018*
- Implemented ccxt Python library to simulate trades in current cryptocurrency market through an arbitrage algorithm
- Designed web-app using Django framework and python for backend-integration, along with HTML/CSS for front end
- Deployed the application through the Heroku cloud platform to be able to access web-app externally

CAMPUS INVOLVEMENT

Engineering Council Leadership Committee at UIUC   *August 2017- May 2018*
- Organized events happening within engineering college such as fairs, conferences, and talks
- Exercised soft skills in order to effective relay communications between different groups within the council

ADDITIONAL INFORMATION/ INTERESTS

Playing the guitar, going out for a round of golf, following the NBA, watching drumline competitions