

# SUNG PIL MOON

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Portfolio: monspo1.github.io

## SUMMARY

- A Data Visualization Engineer with 3 years of professional experience in various projects with Computer Science, UI / UX and Data Science skills and knowledge

## EXPERIENCE

### Data Visualization Engineer, Medidata, NY March. 2017 - Present

- Design and develop interactive applications which aid data scientists to effectively complete their tasks (such as annotating unlabelled data or mapping unlabelled terms with standardized terms) by creating various interactive visualization components
- Collaborate closely with application users and engineers from cross-functional teams to develop new features, to improve the existing features, to integrate seamlessly with the other components, and to resolve unexpected issues.

### Volunteering Software Engineer, Kkottongnae, Orange, NJ Oct. 2018 - Present

- Volunteer for the development of the cost-effective inventory management solution (web and mobile apps) for the Kkottongnae non-profit organization with Raspberry Pi, React / Redux / React Native, NodeJS, ExpressJS, MySQL

### Data Scientist Fellow, NYC Data Science Academy, New York, NY Jan.2016 - Mar. 2016

- Developed interactive applications which provided visualizations and analyses of web-scraped job data (DS JobAnalyzer) and the data scientist salary data against 8 professions in the US (DataScientist SalaryComparator)
- Participated in the Kaggle BNP Paribas Cardif competition to predict user claims category and the DataSci4Good project (designed for the young to develop financial literacy) to improve visualization and recommendation components

### Researcher and Research Engineer, School of Informatics, Indiana University, Indianapolis, IN Sept. 2009 - May 2015

- **Persuasive mobile infoVis app development** (PhD dissertation topic)  
Developed a mobile application for exercise using elements of visualization, gamification and social grouping to help obese people to change sedentary lifestyles to more active ones.
- **Shared decision space infoVis tool for planning and analysis of large healthcare data**  
Developed a decision support tool providing shared decision space visualization of large and complex patient data for intelligence analysts, healthcare professionals and patients. Funded by MITRE research corporation (www.mitre.org)
- **TopHealthTrends infoVis tool development**  
Developed an interactive visualization tool showing local health-related Twitter trends to aid health-related experts

### Research and Teaching Assistant, Carnegie Mellon, ISRI, Pittsburgh, PA Nov.2006 – May 2007

- Led the “Robots to the Rescue” class and offered a guidance of introduction to robotics and programming to undergrad.
- Developed an interactive app with MS Robotics Studio to communicate between four-wheeled robots and simulators

## SKILLS

- Javascript (React/Redux/ReactNative), HTML/CSS, NodeJS, ExpressJS, MySQL, PostgreSQL, Python, R, Amazon AWS (Lambda, API Gateway, EC2, S3), Github, Java, JQuery

## EDUCATION

### Indiana University, Indianapolis, IN

- Ph.D., Human-Computer Interaction, School of Informatics and Computing (Overall GPA: 3.95 / 4.00) May 2015

### Carnegie Mellon University, Pittsburgh, PA

- M.S., Information Technology in eBusiness, School of Computer Science (Overall GPA 3.57 / 4.00) August 2006
- Scholarship: Ministry of Commerce, Industry and Energy of Korea

### Soongsil University, Seoul, KOREA

- B.S., Computer Science (Overall GPA: 3.74 / 4.3) February 2004

## PATENT

### System and Method for Producing Video Map

- Application No: US20100077307 A1 (published on March 25, 2010)

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[https://docs.google.com/document/d/1MxzuS4b234Q1sGc9u6k\\_cDuxN4-IJaMS9w5Dq5QWb\\_A/edit](https://docs.google.com/document/d/1MxzuS4b234Q1sGc9u6k_cDuxN4-IJaMS9w5Dq5QWb_A/edit)  
[https://docs.google.com/document/d/1v46YOjnw7\\_kJLd5f87OTAFzkPHQuKKBrvhB3XOvQ2wM/edit](https://docs.google.com/document/d/1v46YOjnw7_kJLd5f87OTAFzkPHQuKKBrvhB3XOvQ2wM/edit)  
<https://www.velvetjobs.com/resumes/436186>