Seng Zhao Too
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EDUCATION

Illinois Institute of Technology, Chicago, IL, United States   2018
Bachelor of Science in Computer Science; GPA: 3.67; *cum laude* honor

Relevant coursework: Geospatial Vision and Visualization, Advanced Data Mining, Operating Systems, Online Social Network Analysis, Discrete Mathematics

Sunway University, Petaling Jaya, Selangor, Malaysia   2015
American Degree Transfer Program; GPA: 3.86; *magna cum laude* honor

RESEARCH EXPERIENCE

Illinois Institute of Technology, Interprofessional Project
Aug – Dec 2017
Advisor: Steve Hammond
Developed project goals and methods. Worked with Division D basketball coach and collected health data from players through simulations and profiled them accordingly. Built hybrid models to provide objective feedback on players' substitutions through in-game health data. Won the Innovation in Sports Science & Technology Award.

Illinois Institute of Technology, Department of Applied Mathematics
Aug – Dec 2016
Advisor: Dr. Lulu Kang
Course-based undergraduate research for Probabilities and Statistics. Developed project goals and methods, performed data cleansing and extraction as well as conducted calculations. Utilized Statistical Hypothesis Testing on data from Chicago Data Portal to devise the relationship between crime and locality of university neighborhoods (Grand Boulevard, Armor Square, Douglas). Generated heat map based off the results and plotted the crimes accordingly. In collaboration with Nelson J. and Turner K.

Illinois Institute of Technology, Interprofessional Project
Aug – Dec 2016
Advisor: Limia Shumia, Bob Anderson
Developed project goals and methods for "Innovating Solutions to Urban Problems to Improve Livability (Energy)". The research focused on the possibility of combinatory of renewable energy, in particular solar and wind. Designed presentation poster and booklet. Collected data from university's wind turbine and solar panels to calculated the energy generation needed for ROI.

PRESENTATIONS

Interprofessional Project Exhibition, Chicago, IL, November 2017. **Too, S**., Hoang, P., Stanek, J., Galasso, G., Ba, A. "Innovation in Sports Science & Technology" (poster)

Interprofessional Project Exhibition, Chicago, IL, November 2016. **Too, S**., Perez, H., Stanek, J., Shah, D. "Innovating Solutions to Urban Problems to Improve Livability (Energy)" (poster)

TEACHING EXPERIENCE

Undergraduate Teaching Assistant, Illinois Institute of Technology, Chicago   Fall 2016 – Spring 2018
Course: Systems Programming
Responsibilities: Tutored on concepts of virtual memory, UNIX, shell and more. Hosted in-person tutoring as well as via emails and online forum. Served in the same position for 4 consecutive semesters; total students tutored over 200+.

INDUSTRY EXPERIENCE

Data Scientist, Industrie Reply LLC, Chicago   Jun 2018 – Dec 2020
- Posted onsite with a company produces agricultural, construction, and commercial equipment from end-to-end (chassis and engine design, development, production).
- Implemented and enforced software methodologies throughout digital analytics product development phases. Set up checkpoints to uphold process integrity with product owner.
- Built and productionized ETL pipelines with Data Lake, Data Factory, and Databricks from Microsoft Azure platform. Revised underlying data structure using PySpark and reduced data lookup from $O(N)$ to $O(1)$.
- Spearheaded in-house digital analytics product. Built end-to-end (UI/UX, API etc.) reactive control room using Vue.js, D3.js, Flask, Celery, Redis and Data Lake. Integrated Auth0 for access regulation.
- Refactored legacy data analysis use-cases and migrated from local to cloud. Automated report generation and update into Microsoft Power BI.

LEADERSHIP / SERVICE

Illinois Institute of Technology Undergraduate Admissions Office
Student Ambassador, Fall 2015 – Fall 2016
Represents the university to prospective students; assisted in on-campus and off-campus events. Helped with admissions-related activities and hosted prospective students.

HONORS AND AWARDS

Interprofessional Project Track Award: Innovation in Sports Science & Technology (2017)
The M.A. and Lila Self Leadership Academic Scholarship Semi-Finalist (2016)
Presidential Scholarship (2015-2018)
Tan Sri Dato' Dr. Jeffrey Cheah Scholarship Award (2013)
Treat Every Environment Special (TrEES) Young Voices for Conversation Winner (2011)

CERTIFICATIONS

Lean Six Sigma White Belt – US Navy Recruiting Command (2018)
Google Analytics Individual Qualification (2018)
Advanced Google Analytics (2018)
Google Analytics for Beginner (2018)

MEMBERSHIPS

Association for Computing Machinery (2016-2018)
Upsilon Pi Epsilon – Computer Science Honors Society (Awarded in 2018; lifetime membership)

TECHNICAL SKILLS

Programming: Python, C, Java, R, Apache Spark, HTML, CSS, SQL, Javascript (Vue)

Technologies & Tools: Microsoft Azure, Hive, Impala, Power BI, Node, Git, Linux, Spark, Orange, JMP13, Splunk Enterprise

Design & Prototyping: Adobe Suite (Illustrator, Photoshop, InDesign), Sketch

LANGUAGES

English (native)
Chinese (native)
Malay (conversational)
Cantonese (fluent)