NSF BIOGRAPHICAL SKETCH

NAME: Park, Yongjoo

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POSITION TITLE & INSTITUTION: Assistant Professor, University of Illinois at Urbana-Champaign

(a) PROFESSIONAL PREPARATION -(see PAPPG Chapter II.C.2.f.(a))

INSTITUTION	LOCATION	MAJOR / AREA OF STUDY	DEGREE (if applicable)	YEAR YYYY
Seoul National University	Seoul, Seoul	Electrical Engineering	BS	2009
University of Michigan	Ann Arbor, Michigan	Computer Science	MS	2013
University of Michigan	Ann Arbor, Michigan	Computer Science and Engineering	PHD	2017
University of Michigan	Ann Arbor, Michigan		Postdoctoral Fellow	2017 - 2019

(b) APPOINTMENTS -(see PAPPG Chapter II.C.2.f.(b))

2021 - present   Assistant Professor, University of Illinois at Urbana-Champaign, Urbana, IL

2019 - 2022   Chief Technology Officer, Keebo, Inc., Bakersfield, CA

2012 - 2017   Graduate Student Research Assistant, University of Michigan, Ann Arbor, MI

2009 - 2011   Software Engineer, Webcash, Seoul

(c) PRODUCTS -(see PAPPG Chapter II.C.2.f.(c))

Products Most Closely Related to the Proposed Project

1. S. Chockchowwat, C. Sood, Y. Park. Airphant: Cloud-oriented Document Indexing. 2022 IEEE 38th International Conference on Data Engineering (ICDE). 2022; :1368-1381. DOI: 10.1109/ICDE53745.2022.00107

2. Park Y, Zhong S, Mozafari B. QuickSel: Quick selectivity learning with mixture models. Proceedings of the 2020 ACM SIGMOD International Conference on Management of Data. 2020; :1017-1033. DOI: 10.1145/3318464.3389727

3. Park Y, Qing J, Shen X, Mozafari B. BlinkML: Efficient maximum likelihood estimation with probabilistic guarantees. Proceedings of the 2019 International Conference on Management of Data. 2019; :1135-1152. DOI: 10.1145/3299869.3300077

4. Park Y, Mozafari B, Sorenson J, Wang J. VerdictDB: Universalizing approximate query processing. Proceedings of the 2018 International Conference on Management of Data. 2018; :1461-1476. DOI: 10.1145/3183713.3196905

5. Bater J, Park Y, He X, Wang X, Rogers J. SAQE: practical privacy-preserving approximate query processing for data federations. Proceedings of the VLDB Endowment. 2020; 13(12):2691-2705. DOI: 10.14778/3407790.3407854

Other Significant Products, Whether or Not Related to the Proposed Project

1. Park Y, Tajik A, Cafarella M, Mozafari B. Database Learning: Toward a database that becomes

smarter every time. Proceedings of the 2017 ACM International Conference on Management of Data. 2017; :587-602. DOI: 10.1145/3035918.3064013

2. He W, Park Y, Hanafi I, Yatvitskiy J, Mozafari B. Demonstration of VerdictDB, the platform-independent AQP system. Proceedings of the 2018 International Conference on Management of Data. 2018; :1665-1668. DOI: 10.1145/3183713.3193538

3. Park Y, Cafarella M, Mozafari B. Visualization-aware sampling for very large databases. 2016 IEEE 32nd international conference on data engineering (ICDE). 2016; :755-766. DOI: 10.1109/ICDE.2016.7498287

4. Park Y, Cafarella M, Mozafari B. Neighbor-sensitive hashing. Proceedings of the VLDB Endowment. 2015; 9(3):144-155. DOI: 10.14778/2850583.2850589

5. Park Y. Interactive-Speed Analytics: 200x Faster, 200x Fewer Cluster Resources, Approximate Query Processing. [Internet]. Ann Arbor, MI: University of Michigan; 2018. Available from: https://github.com/verdict-project/verdict

(d) SYNERGISTIC ACTIVITIES -(see PAPPG Chapter II.C.2.f.(d))

1. Founded Keebo, a research-based startup company that has raised nearly $15 million to date

2. Authored 12 research papers in premier database conferences/workshops

3. Invented VerdictDB, an open-source approximate query processing system deployed at companies

4. Advises 3 PhD students, 1 MS student, and 6 undergraduate students

5. Chaired and organized four premier ACM/IEEE/NSF conferences/events