Wasi Uddin Ahmad

Contact Information

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About

I am an applied scientist at AWS AI Labs. I am part of the science team that builds Amazon CodeWhisperer. My current works revolve around training large language models for code generation and developing code embedding models to facilitate code search, code re-ranking, and retrieval augmented generation.

Professional Experience

Applied Scientist, AWS CodeWhisperer [10/2021 – Present]
Amazon Web Services, Santa Clara, California

Research Intern, Language and Translation Technology [06/2020 – 09/2020]
Facebook AI, Menlo Park, California

Research Intern, Ad Quality Science [06/2019 – 09/2019]
Yahoo Research, Sunnyvale, California

Research Intern, Business Applications Group [06/2018 – 09/2018]
Microsoft AI and Research, Redmond, Washington

Research Intern, Wireless Fraud Prevention [06/2016 – 08/2016]
Walmart Labs, Reston, Virginia

Lecturer, Department of Computer Science & Engineering [11/2013 – 08/2015]
Ahsanullah University of Science & Technology, Dhaka, Bangladesh

Software Engineer, VoIP Solution in Android [02/2013 – 10/2013]
REVE Systems, Dhaka, Bangladesh

Selected Publications [Google Scholar]

Zhang, D.*, **Ahmad, W. U.***, Tan, M., Ding, H., Nallapati, R., Roth, D., Ma, X., & Xiang, B. (2024). Code Representation Learning At Scale. In Proceedings of ICLR.

Ding, Y.*, Wang, Z.*, **Ahmad, W. U.***, Ding, H., Tan, M., Jain, N., Ramanathan, M. K., Nallapati, R., Bhatia, P., Roth, D., & Xiang, B. (2023). CrossCodeEval: A Diverse and Multilingual Benchmark for Cross-File Code Completion. In Proceedings of the NeuRIPS Track on Datasets and Benchmarks.

Jain, N.*, Zhang, D.*, **Ahmad, W. U.***, Wang, Z., Feng, N., & Others. (2023). ContraCLM: Contrastive Learning For Causal Language Model. In Proceedings of the 61st Annual Meeting of the ACL.

Ahmad, W. U.*, Chakraborty, S.*, Ray, B., & Chang, K. W. (2021). Unified Pre-training for Program Understanding and Generation. In Proceedings of the 2021 Annual Conference of the NAACL-HLT.

Ahmad, W. U., Peng, N., & Chang, K. W. (2021). GATE: Graph Attention Transformer Encoder for Cross-lingual Relation and Event Extraction. In Proceedings of the 35th AAAI.

Ahmad, W. U., Chang, K. W., & Wang, H. (2019). Context Attentive Document Ranking and Query Suggestion. In Proceedings of the 42nd International ACM SIGIR, pages 385–394.

Wasi Ahmad, Kai-Wei Chang, and Hongning Wang. *Multi-Task Learning for Document Ranking and Query Suggestion*. Proceedings of the 6th International Conference on Learning Representations (ICLR), 2018.

Education

Ph.D. in **Computer Science** [2017 – 2021]
University of California, Los Angeles
CGPA: 3.78 on a scale of 4.00
Advisor: Dr. Kai-Wei Chang

Master of **Computer Science** [2015 – 17]
University of Virginia
CGPA: 4.00 on a scale of 4.00

B.Sc. in **Computer Science and Engineering** [2008 – 13]
Bangladesh University of Engineering and Technology
CGPA: 3.81 on a scale of 4.00

Professional Services

Senior Area Chair/Area Chair/Senior Program Committee/Program Committee/Reviewer

2024: IJCAI, SIGIR, ICLR, AAAI, ARR, LREC-COLING, NAACL

2023: AAAI, ICML, SIGIR, ACL, IJCAI, ICLR, ARR, EACL

2022: NeurIPS, EMNLP, ICML, SIGIR, IJCAI, KDD, ARR, LREC, AAAI, WSDM, ICLR

2021: NeurIPS, EMNLP, SIGIR, ACL-IJCNLP, NAACL, IJCAI, EACL, AAAI

2020: EMNLP, ICML, IJCAI, AAAI, LREC