



Akshita Maradapu Vera Venkata Sai

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Research Interests

- Privacy Aware Computing
- Mobile Edge Computing
- Digital Twin Networks
- Location Based Social Networks
- Mobile Crowd Sourcing Systems
- Machine Learning

Education

Expected (July 2023)

Georgia State University, Atlanta, GA
Ph.D. in Computer Science
Dissertation: "User Centric privacy preservation in IoT"
Advisors: Dr Yingshu Li and Dr. Zhipeng Cai
GPA: 3.94/4.0

December 2017

Georgia State University, Atlanta, GA
M.S. in Computer Science
Project: "Steganography using LSB and Selective LSB models"
Advisor: Dr. Xiaojun Cao
GPA: 3.87/4.0

July 2016

GITAM University, Visakhapatnam, India
B.Tech in Computer Science
Project: "LTE/ SAE Security Issues in 4G Networks"
GPA: 9.35/10.0

Teaching Experience

Teaching Fellow	Software Engineering (Spring 2019 and Spring 2020) <ul style="list-style-type: none">• Redesigned the course to match industry standards• Integrated Agile methodology into the class project• Conducted Case-study based tests for student evaluation	GSU, Atlanta
	Data Mining (Spring 2022) <ul style="list-style-type: none">• Designed a coding centric course to familiarize students with data mining tools and packages• Introduced different data mining techniques and the work behind it	GSU, Atlanta
Teaching Assistant	Introduction to Internet of Things (IoT) (Fall 2021) <ul style="list-style-type: none">• Conducted labs on Android Studio• Developed labs sessions and assignments on telos b notes• Graded labs and tests and assisted in evaluating course projects	GSU, Atlanta
	Database Systems (Fall 2020) <ul style="list-style-type: none">• Conducted labs on MySQL• Graded assignments and tests	GSU, Atlanta
	Big Data Programming (Spring 2017) <ul style="list-style-type: none">• Gave sessions on Hadoop• Graded assignments and tests	GSU, Atlanta
	Theoretical Foundations in Computer Science (Fall 2016) <ul style="list-style-type: none">• Conducted tutoring hours for all CS students taking this course• Assisted the instructor in preparing quizzes and exams• Graded exams and tests	GSU, Atlanta
Lab Instructor	Computer Organization and Programming (Spring 2021 and Summer 2021) <ul style="list-style-type: none">• Conducted weekly lab sessions on Assembly language programming for x86 architecture• Graded lab assignments and exams	GSU, Atlanta

Principles of Computer Science II (Fall 2019)

GSU, Atlanta

- Conducted weekly lab sessions for over 40 students in JAVA
- Graded labs, exams, and quizzes

Professional Activities

- Reviewer of the research journals:
 - IEEE Access
 - ACM Transactions on Sensor Networks
 - IEEE Transactions on Computational Social Systems
 - IEEE International Conference on Wireless Algorithms, Systems and Applications
 - IEEE Transactions on Network science and Engineering
- Mentored and Assisted of a Project in an REU project, funded by NSF
- Mentored a Master's student on their thesis
- Mentored an Undergraduate Honors College student on their thesis
- Board Member (Membership Chair) of the GSU IEEE Student Chapter
- Committee Chair of College of Arts and Science Tech Fee Committee

Publications

Currently working

A. M. V. V. Sai and Y. Li, "Privacy-Aware Location Recommendation in Mobile Edge Systems", 2022

A. M. V. V. Sai and Y. Li, "Adaptive privacy preservation of online check-in data in LBSNs", 2022

Published Journals and Conferences

[Neurocomputing] Q. Luo, D. Yu, A. M. V. V. Sai, Z. Cai, X. Cheng, "A Survey of Structural Representation Learning for Social Networks", *Neurocomputing*, 2022, ISSN 0925-2312.

[IEEE SCI] A. M. V. V. Sai, K. Zhang and Y. Li, "User Motivation Based Privacy Preservation in Location Based Social Networks," *2021 IEEE SmartWorld, Ubiquitous Intelligence & Computing, Advanced & Trusted Computing, Scalable Computing & Communications, Internet of People and Smart City Innovation (SmartWorld/SCALCOM/UIC/ATC/IOP/SCI)*, 2021, pp. 471-478, doi: 10.1109/SWC50871.2021.00070.

[IEEE IDPDC] F. Zhao, Y. Huang, A. M. V. V. Sai and Y. Wu, "A Cluster-based Solution to Achieve Fairness in Federated Learning," *2020 IEEE Intl Conf on Parallel & Distributed Processing with Applications, Big Data & Cloud Computing, Sustainable Computing & Communications, Social Computing & Networking (ISPA/BDCloud/SocialCom/SustainCom)*, 2020, pp. 875-882, doi: 10.1109/ISPA-BDCloud-SocialCom-SustainCom51426.2020.00135.

[TVT] Y. Lin, Z. Cai, X. Wang, F. Hao, L. Wang and A. M. V. V. Sai, "Multi-Round Incentive Mechanism for Cold Start-Enabled Mobile Crowdsensing," in *IEEE Transactions on Vehicular Technology*, vol. 70, no. 1, pp. 993-1007, Jan. 2021, doi: 10.1109/TVT.2021.3050339.

[JOCO] Z. He, A. M. V. V. Sai, Y. Huang, H. Zhang and Q. Han, "Differentially private approximate aggregation based on feature selection" in *Journal of Combinatorial Optimization*, 1-10.

[TST] J. Li, A. M. V. V. Sai, X. Cheng, W. Cheng, Z. Tian and Y. Li, "Sampling-based approximate skyline query in sensor equipped IoT networks," in *Tsinghua Science and Technology*, vol. 26, no. 2, pp. 219-229, April 2021, doi: 10.26599/TST.2019.9010060.

[IEEE Access] A. M. V. V. Sai and Y. Li, "A Survey on Privacy Issues in Mobile Social Networks," in *IEEE Access*. doi: 10.1109/ACCESS.2020.3009691.

[EURASIP] Y. Wang, X. Tao, F. Zhao, B. Tiaa and A. M. V. V. Sai (2020). "SLA-aware resource scheduling algorithm for cloud storage". *EURASIP Journal on Wireless Communications and Networking*, 2020(1), 1-10.

[IEEE Access] K. Yan, G. Lu, G. Luo, X. Zheng, L. Tian and A. M. V. V. Sai, "Location Privacy-Aware Task Bidding and Assignment for Mobile Crowd-Sensing," in *IEEE Access*, vol. 7, pp. 131929-131943, 2019.

[IEEE Access] K. Yan, G. Luo, X. Zheng, L. Tian and A. M. V. V. Sai, "A Comprehensive Location-Privacy-Awareness Task Selection Mechanism in Mobile Crowd-Sensing," in *IEEE Access*, vol. 7, pp. 77541-77554, 2019. doi: 10.1109/ACCESS.2019.2921274.

[Book Chapter] Z. He, Y. Lin, Y. Liang, X. Wang, A. M. V. V. Sai, and Z. Cai, Modeling Malware Propagation Dynamics and Developing Prevention Methods in Wireless Sensor Networks, pp. 231–250. Cham: Springer International Publishing, 2019. doi: 10.1007/978-3-030-16194-1_10

Affiliations

- IEEE
- ACM
- N2Women
- IEEE Young Professionals Society

Presentations and Talks

"User Motivation based Privacy Preservation in LBSNs", Internet of Things REU at GSU, 30 July 2021

"Teaching Pedagogy – Software Engineering and Other related courses", Teaching and Research Workshop at GSU, 8 June 2021

"Privacy Issues in Mobile Social Networks", Workshop on Cognitive Radio Networks, 10 February 2019

Awards and Grants

Outstanding Graduate Teaching Assistant, Department of Computer Science, GSU. 2020