

# RAMESH ADHIKARI

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## PERSONAL PROFILE

I am a Ph.D. student at the School of Computer and Cyber Sciences, Augusta University, under the guidance of Dr. Costas Busch. My research focuses on Distributed Algorithms and Blockchain Technology. With four years of industry experience as a Software Engineer, I bring both academic expertise and practical knowledge to my work.

## EDUCATION

<b>School of Computer and Cyber Sciences, Augusta University</b>	Augusta, Georgia, USA
Ph.D. in Computer and Cyber Sciences	Aug 2022 - Present
<b>Pokhara University</b>	Kathmandu, Nepal
Masters of Science in Computer Engineering	2018 - 2021
<b>Tribhuvan University</b>	Kathmandu, Nepal
Bachelor of Engineering in Computer Engineering	2013 - 2017

## SELECTED PUBLICATIONS

**Ramesh Adhikari**, and Costas Busch. [Lockless Blockchain Sharding with Multiversion Control](#), SIROCCO 2023 (2023)

**Ramesh Adhikari**, and Suresh Pokharel. [Performance Evaluation of Convolutional Neural Network Using Synthetic Medical Data Augmentation Generated by GAN](#). International Journal of Image and Graphics (2021): 2350002

## RESEARCH EXPERIENCE

<b>Graduate Research Assistant</b>   Augusta University   Augusta, Georgia, USA	Aug 2022 – Present
Working on the distributed algorithm and blockchain technology, mainly on sharding in blockchain to solve the scalability issue, under the supervision of Dr. Costas Busch.	
<b>Graduate Student</b>   Nepal College of Information Technology   Kathmandu, Nepal	2020 – 2021
Worked on machine learning and deep learning projects under faculty members to complete master's research.	

## SERVICE

- Reviewer, IEEE Transactions on Network and Service Management (2022)
- Reviewer, The 6<sup>th</sup> IEEE International Conference on Blockchain (Blockchain 2023)

## ADDITIONAL EXPERIENCE

<b>Software Engineer</b>   Sanima Bank   Kathmandu, Nepal	May 2019 – Jun 2022
<ul style="list-style-type: none"><li>• Developed web applications for commercial banks.</li><li>• Integrated API and web services.</li><li>• Developed Batch Script and SQL query to automate the process.</li></ul>	
<b>Software Engineer</b>   SmartMobe Solutions Pvt. Ltd   Kathmandu, Nepal	Feb 2018 - April 2019
<ul style="list-style-type: none"><li>• Collaborated with a 30-member team to develop cutting-edge APIs for mobile and web apps.</li><li>• Researched new tools and technologies, implementing improvements for efficiency and automation.</li></ul>	

## ACHIEVEMENTS AND PARTICIPATION

- Attended The Southeast Regional Programming Languages Seminar 2023 (Oct 2023).
- Presented a paper at the 30th International Colloquium on Structural Information and Communication Complexity (SIROCCO 2023) in Alcalá de Henares, Madrid, Spain (June 6-9, 2023).
- Received \$1000 travel award from the Graduate School, Augusta University, to present a paper at SIROCCO 2023 (Mar 2023).
- Presented a poster at the 3rd annual workshop on Emerging Data Science Methods for Complex Biomedical and Cyber Data at Augusta University (Mar 2023).
- Received an NSF travel award for the 3rd Data Science Workshop at Augusta University (Feb 2023).
- Attended the International Symposium on Distributed Computing (DISC) conference in 2022, awarded by Augusta University.
- Received the Star Performance Excellence Award at Sanima Bank Ltd (2021).

- Granted a full scholarship for a Master of Science in Computer Engineering from Pokhara University (2018).
- Served as a member of the Kathford FOSS Community at Kathford International College, guiding participants in the EVOLVE 2.0 software competition (2017).
- Achieved First Runner-Up in a software competition at Kantipur Engineering College (2015).

## SKILLS

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**Programming languages, Libraries, Tools:** Python | Go | C | C++ | JavaScript | PHP | Tensorflow | MySQL | SQL server | Shell Scripting

**Broad Skills:** Distributed Algorithm | Distributed System | Blockchains | Algorithmic Analysis | Web Scraping | Database Design | Machine Learning | Cloud Computing | Problem Solving