

RAMESH ADHIKARI

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PERSONAL PROFILE

A Ph.D. student at School of Computer and Cyber Sciences, Augusta University. My research interests areas are in Distributed Algorithms, Blockchain Technology, and Computer Vision. I have 3.5 years of working experience in the field of information technology and services industry as a Software Engineer.

EDUCATION

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

SELECTED PUBLICATIONS

Adhikari, Ramesh, 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

Graduate Research Assistant Augusta University Augusta, Georgia, USA 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.	Aug 2022 – Present
Graduate Student Nepal College of Information Technology Kathmandu, Nepal Worked on machine learning and deep learning under faculty members' to complete master's research.	2020 – 2021

ADDITIONAL EXPERIENCE

Software Engineer Sanima Bank Kathmandu, Nepal <ul style="list-style-type: none">Developed web applications for the banking process.Integrated API and web services.Developed Batch Script and SQL query to automate the process.	May 2019 – Jun 2022
Software Engineer SmartMobe Solutions Pvt. Ltd Kathmandu, Nepal <ul style="list-style-type: none">Developed the API for mobile and web applications in collaboration with a team of 30 people by using relatable best practices and the latest technology and trends while keeping in mind the quality of code, scalability, and security.Researched new tools and technologies and made necessary changes or suggestions after weighing all alternatives. Continuously improve efficiency using new technologies and automation.	Feb 2018 - April 2019

ACHIEVEMENTS AND PARTICIPATION

- Attended International Symposium on Distributed Computing (DISC) conference, 2022, awarded by Augusta University, 2022.
- Star Performance Excellence Award, Sanima Bank Ltd, 2021.
- Full Scholarship for Master of Science in Computer Engineering from Pokhara University, 2018.

- Worked as a member of Kathford FOSS Community in Kathford Int'l college, monitored and guided the participants in EVOLVE() 2.0 software competition, 2017.
- First Runner Up, Software competition at Kantipur engineering college, 2015.

SKILLS

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

SELECTED PROJECTS

- Sharding in Blockchain [work in progress]
- Lockless transaction in Blockchain Sharding using multi-version concurrency control [work in progress]
- Implemented Blockchain Technology in the E-voting system
- Enhanced the performance of Convolutional Neural Network (CNN) by synthetically generating medical data using a generative adversarial network (GAN). [master's thesis]
- Designed microservice architecture and developed a workflow management system for Banking Industry.