

Samiyuru (Sami) Menik

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Education

University of Georgia

PhD Computer Science
Expected Graduation 2023
GPA 4.0/4.0

University of Westminster

BEng (Hons) Software Engineering
First Class, Final year GPA 4.0/4.0
Gold medalist, 2015

Skills

Programming

Java • C++ • Python • JavaScript •
HTML • SQL

Experience

Problem solving • Algorithms and Data Structures • Fast Prototyping • Object Oriented Design • Team Working and leadership • Maintainable Clean Code • Compilers and Tools Development • Microservices Architecture • Enterprise Middleware • Cloud Technologies • Web and Mobile Development • Design Patterns • Deep Learning Technologies • Machine Learning • Keras • Tensorflow • NumPy

Honors and Awards

- US Patent for a block chain based application at Equifax.
- Dr. Gamini Wikramasinghe Gold medal for academic excellence, 2015
- NBQSA The Best Opensource Project Special Award, 2015
- NBQSA The Best University Project Silver Award, 2015
- APICTA The Best University Project Merit Award, 2015
- Virtusa Academic Excellence Award 1st prize, 2015
- NBQSA The Best Research and Development Project Bronze and Tools and Infrastructure Applications Merit awards, 2013

Employment

Micro Focus Vertica DB | Software Engineer Intern | Summer 2021 & 2020

- Member of distributed database optimizer team.
- In 2021, designed and implemented a set of new query syntaxes and relevant data processing mechanisms to manage Vertica directed queries.
- In 2020, designed and implemented an approach to improve statistics analysis performance up to 45%. Designed and implemented a license auditing approach that improved performance by eliminating daily resource consumption peaks.

Equifax | Software Engineer Intern | 05/2019 - 08/2019

- Member of Equifax Data Science Labs team; responsible for driving innovation.
- Design and development of a block-chain based system to protect consumer PII in a financial setting. First block-chain based project in the company. The only developer in the project. Received a US patent.

University of Georgia | PhD Candidate | 08/2017 - Present

- Conducting research to introduce semantic **modularity to deep learning** technologies in an effort to enhance systems engineering practices in deep learning and make the technology more accessible to a wider audience.
- Head TA: Software Development (Team of 9 TAs with 300+ students), Data structures. Lab Instructor: Intro. Programming. TA: Web Programming, Software Development, Theory of Computation.
- Courses: Mobile Software Development, Database Management, Computer Architecture, Compilers, Algorithms, Enterprise Integration (Knowledge Graphs), Advanced distributed computing, Advanced Data Intensive computing, Advanced Information Systems, Image processing, Machine Learning • Maintained GPA 4.0/4.0.

IFS RnD | Software Engineer | 08/2016 - 07/2017

- One of the 7 members of IFS Labs, the global research team of IFS RnD with 3100+ employees.
- Cut the project cost by 50% by implementing simulation tools for experiments; Added intelligence to IFS platform by sentiment analysis with a scalable big data architecture. Developed and presented research projects at an IFS business conference in Europe.

WSO2 Inc | Software Engineer | 07/2015 - 08/2016

- Key member of WSO2 MSF4J micro services server team. Designed and implemented key features of MSF4J maintaining high throughput that surpassed the competition. Became the top contributor of the project in 2 months.

Other Experiences | 2009 - 2014

- Worked as a software engineer intern at **99X Technology** helping to win awards. Running an independent **web application development** business small and medium sized companies.

Publications

- Towards Modular Machine Learning Solution Development: Benefits and Trade-offs (In submission) • Towards a Robust Knowledge Graph-Enabled Machine Learning Service Description Framework - IEEE ICSC 2021 • CGui Toolchain for Highly Customized GUI Development for Multiple Platforms