



VIMAL KUMAR DWIVEDI

Date of birth: 17/08/1992 | **Nationality:** Indian | **Gender:** Male | **Phone**

number: (+44) 7796063952 (Mobile) | **Email address:** vimal.bncet@gmail.com |

Address: 2B, University street, BT71FY, Belfast, United Kingdom (Home)

About me: An energetic and talented researcher with four years of experience in the blockchain, having a strong desire to build a career within the research industry. Passionate, self-motivated individual with a drive to succeed, having excellent organizational skills. Highly efficient and methodical with a good eye for detail with a proactive approach to performance and data accuracy. Vimal is presently looking for a suitable researcher position with a growing and fast-moving organization to fulfill his potential.

● WORK EXPERIENCE

23/01/2023 – CURRENT Belfast, United Kingdom

RESEARCH FELLOW QUEENS'S UNIVERSITY BELFAST

01/08/2021 – CURRENT Tartu, Estonia

JUNIOR LECTURER UNIVERSITY OF TARTU

- Taught lab courses such as Software Engineering and Software Testing
- Supervising master's thesis
- Participated in defense committees for bachelor's and master's theses

09/01/2018 – CURRENT Tallinn, Estonia

EARLY STAGE RESEARCHER TALLINN UNIVERSITY OF TECHNOLOGY

- Supervise and support blockchain applications
- Monitor, research and test the newest blockchain technologies
- Care about code quality and know what it means to ship high-quality code
- Research and develop a **smart contract language** for legally-binding DAO
- Research and implement the underlying protocol of the blockchain, **consensus mechanism, governance model, smart contract virtual machines**

09/03/2018 – 11/06/2018 Shanghai, China

PHD INTERN QTUM FOUNDATION

- The development direction of R&D blockchain technology
- The latest dynamic tracking and finishing of blockchain management policies, industry applications and technological breakthroughs at home and abroad

10/08/2015 – 01/01/2018 Ghaziabad, India

ASSISTANT PROFESSOR KRISHNA ENGINEERING COLLEGE

- Designed and led weekly lecture review and discussion sections for a group of 11 students
- Graded problem sets and exams
- Prepared course material including laboratory experiments, lectures, exams, homework, and practice problems
- Taught and facilitated courses such as **Design and Analysis of Algorithms, Discrete Structures, Graph Theory Operating System, Web Technology, Data Structures** for undergraduates
- Received excellent student evaluation scores that surpassed course benchmarks for teaching quality (4.67/5, with course benchmark of 4.07; and 4.47/5, with course benchmark of 4.17)

● EDUCATION AND TRAINING

08/11/2017 – 25/05/2022 Tallinn, Estonia

DOCTOR OF PHILOSOPHY TalTech – Tallinn University of Technology

Address Ehitajate tee 5, Tallinn, Estonia

08/08/2013 – 31/08/2015 Delhi, India

MASTER OF TECHNOLOGY Guru Gobind Singh Indraprastha University

Address Sector 16 C, Dwarka, Delhi, India

05/08/2008 – 11/07/2012 Lucknow, India

BACHELOR OF TECHNOLOGY Dr. A.P.J. Abdul Kalam Technical University

Address Vistar Yojna, Naya Khera, Jankipuram, Lucknow, India

● ADDITIONAL INFORMATION

PUBLICATIONS

[Legally Enforceable Smart-Contract Languages: A Systematic Literature Review](#) – 2021

ACM Computing Surveys (Impact Factor- 10.282)

[Towards user-centered and legally relevant smart-contract development: A systematic literature review](#)

– 2022

Journal of Industrial Information Integration (Impact Factor-10.063)

[A Formal Specification Smart-contract Language For Legally Binding Decentralized Autonomous Organizations](#)

– 2021

IEEE Access Journal (Impact Factor-3.75)

10.1109/ACCESS.2021.3081926

[Auto-Generation of Smart Contracts from a Domain-Specific XML-Based Language](#) – 2021

Best paper award at the 9th International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA 2021), June 25-26, Mizoram, India.

[Security Issues and Application of Blockchain](#) – 2021

International Conference On Machine Learning, Advances in Computing, Renewable Energy and Communication (MARC2020)

[A Legal-Relationship Establishment in Smart Contracts: Ontological Semantics for Programming-Language Development](#)

– 2021

5th International Conference on Advances in Computing and Data Sciences (ICACDS 2021)

[Formal-verification of smart-contract languages: A survey](#) – 2019

doi.org/10.1007/978-981-13-9942-8_68

[A legally relevant socio-technical language development for smart contracts](#) – 2018

10.1109/FAS-W.2018.00016

[An improved approach for automatic denoising and binarization of degraded document images based on region localization](#)

– 2015

10.1109/ICACCI.2015.7275956

CONFERENCES AND SEMINARS

03/09/2018 – 07/09/2018 – Trento, Italy

IEEE 3rd International Workshops on Foundations and Applications of Self* Systems (FAS*W)

11/11/2016 – 13/11/2016 – Ghaziabad, India

International Conference on Advances in Computing and Data Sciences

26/08/2019 – 30/08/2019 – Tallinn, Estonia

27th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE 2019)

16/09/2019 – 27/09/2019 – Tallinn, Estonia

Blockchain and Smart Contracts Sommerschule - BloSSom 2019

RECOMMENDATIONS

Alexander Nortá PhD supervisor

"I worked with Vimal as a Ph.D. supervisor and rarely came across real talents who stand out like Vimal. I had the pleasure of working with Vimal for four years at the Taltech, collaborating on Blockchain projects. Vimal's ability to handle multiple projects was unlike any I've seen before. No matter how tense a meeting, Vimal made sure everyone left with a smile. As a team member, Vimal earns my highest recommendation."

Email alex.norta@ieee.org

SKILLS AND INTEREST

Computer

Python, MATLAB, Java, C++, HTML, CSS, Javascript, Solidity

Languages

Hindi (native), English (upper-intermediate), Estonian (beginner)

Interests

Ballroom dancing, drawing, graphic design, board games

DISSERTATIONS UNDER SUPERVISION

30/08/2021 – CURRENT

Defining Blockchain-Based Techniques for Privacy Conflict-Resolution in Cross-Organizational Processes for E-Health Systems

30/08/2021 – CURRENT

Automatic generation of smart contracts from an XML-based language
