VINURI GAYANTHIKA BANDARA

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Education

University of Colombo School of Computing   Sri Lanka
Bachelor of Science Honors in Information systems   *2017 – 2021*
- Current GPA - 3.93/4.25 (1st in batch)

National Institute of Business Management (NIBM)   Sri Lanka
Diploma in Computer System Design (DCSD)   *2015 – 2016*
- GPA - 4.0/4.0

G.C.E Advanced Level (Biological Science)   Sri Lanka
Maliyadeva Girls' College, Kurunegala   *2012 – 2015*

Experience

Research assistant   Apr 2021 – Current
Sustainable Computing Research group , University Colombo School of Computing
- Software security, Vulnerability management

Google Summer of Code   May 2020 – Aug 2020
Working under SCoRe Lab, Sri Lanka
- On project **Community Dictionary**

Google Code-in mentor   2019
Representing SCoRe Lab, Sri Lanka

Security research intern   Aug 2019 – Mar 2020
Sustainable Computing Research group , University Colombo School of Computing
- ChainKeeper - Analyzing blockchain data
- Project BugZero **BugZero** for vulnerability discovery in projects

Publications

Fix that Fix Commit: A real-world remediation analysis of JavaScript projects
V. Bandara, T. Rathnayake, N. Weerasekara, C. Elvitigala, K. Thilakarathna, P. Wijesekera, C. Keppitiyagama
IEEE 20th International Working Conference on Source Code Analysis and Manipulation (SCAM), Adelaide, Australia, 2020
DOI: 10.1109/SCAM51674.2020.00027

Projects

Large scale analysis on vulnerability introducing fixes   Feb 2021 – Present
- Examining the reasons behind the fixes that introduces new vulnerabilities - In terms of developer practices, code refactoring

Vulnerability remediation analysis in open-source JavaScript projects   Jan – Dec 2020
- Identifying relationships between vulnerabilities with the focus on vulnerability remediation

Community dictionary | *React JS, Redux, Google Firebase*   May – Aug 2020
- A crowd-sourced multilingual dictionary
- Front-end and main functionality development

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BugZero   Aug 2019 – March 2020
- A crowd-sourcing platform for connecting organizations and hackers, where the organizations can list their assets such as web solutions, Android/iOS applications to be tested for weaknesses.

ChainKeeper   Aug 2019 – March 2020
- A web application to explore and analyze blockchain data for users.

Awards and recognition

Country represenation
- **Huawei Seeds for the future 2019** - Represented Sri Lanka at the Huawei Seeds for the Future program in Beijing, Shenzhen China
  (Learning outcomes include Huawei technologies such as: telecommunication infrastructure, 5G, cloud)

Hackathons and Coding competitions
- Google Code Jam to I/O for Women 2021 - 1st country rank / 206th world rank
- Tadhack 2018 by hSenidMobile

University representation
- Represented University of Colombo School of computing at the IEEE SLSYW congress in 2017
- Inter-faculty chess player

Skills

Programming languages and Frameworks: Python, PHP, Javascript, Java, SQL, HTML, Codeigniter, Node.js, Express, React, Bootstrap, Ant design
Developer Tools: Jupyter Notebooks, Git, Google Cloud Platform, VS Code, Amazon AWS
Libraries: pandas, plotly, numpy, gensim
Data analysis: MATLAB, GNU Octave, Rapidminer
Blockchain Analysis: BlockSci