

# VINURI GAYANTHIKA BANDARA

✉ [vinugayanthika@gmail.com](mailto:vinugayanthika@gmail.com) | [in](#) [Vinuri Bandara](#) | [VinuriBandara](#) | ☎ +72 199 7655

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## Education

### University of Colombo School of Computing

*Bachelor of Science Honors in Information systems*

- Current GPA - 3.93/4.25 (1st in batch)

Sri Lanka  
2017 – 2021

### National Institute of Business Management (NIBM)

*Diploma in Computer System Design (DCSD)*

- GPA - 4.0/4.0

Sri Lanka  
2015 – 2016

### G.C.E Advanced Level (Biological Science)

*Maliyadeva Girls' College, Kurunegala*

Sri Lanka  
2012 – 2015

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## Experience

### Security researcher

*Sustainable Computing Research group , University Colombo School of Computing*

- Software security, Vulnerability management

Apr 2021 – Current

### Google Summer of Code

*Working under SCoRe Lab, Sri Lanka*

- On project Community Dictionary

May 2020 – Aug 2020

### Google Code-in mentor

*Representing SCoRe Lab, Sri Lanka*

2019

### Security research intern

*Sustainable Computing Research group , University Colombo School of Computing*

- ChainKeeper - Analyzing blockchain data
- Project BugZero BugZero for vulnerability discovery in projects

Aug 2019 – Mar 2020

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## 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

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

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## Awards and recognition

- Country representation**
- **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

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## 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