

# VINURI GAYANTHIKA BANDARA

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## Education

- Bachelor of Science Honors in Information systems** 2017 – 2021  
*University of Colombo School of Computing* Sri Lanka
- First class / GPA - 3.9
- Diploma in Computer System Design (DCSD)** 2015 – 2016  
*National Institute of Business Management (NIBM)* Sri Lanka
- GPA - 4.0
- G.C.E Advanced Level (Biological Science)** 2012 – 2015  
*Maliyadeva Girls' College, Kurunegala* Sri Lanka
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## Experience

- Research assistant** Apr 2021 – Present  
*Sustainable Computing Research group, University Colombo School of Computing*
- Software security, Vulnerability management
- Google Summer of Code** June 2021 – Aug 2021  
*Working under SCoRe Lab, Sri Lanka*
- On project DNSTool-CLI
- Google Summer of Code** May 2020 – Aug 2020  
*Working under SCoRe Lab, Sri Lanka*
- On project Community Dictionary
- Google Code-in mentor** Dec 2019 - Jan 2020  
*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
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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

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## Posters/Presentations

### **Demo: Large Scale Analysis on Vulnerability Remediation in Open-source JavaScript Projects**

V. Bandara, T. Rathnayake, N. Weerasekara, C. Elvitigala, K. Thilakarathna, P. Wijesekera, K. Zoysa, C. Keppitiyagama  
ACM Conference on Computer and Communications Security (CCS), 2021

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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

### **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

**Languages:** English(Fluent)