

Varunram Ganesh

☎ (+1) 617-866-3108 | ✉ contact@varunram.com | 🌐 www.varunram.com | 📷 Varunram

Education

NIT Trichy (National Institute of Technology, Tiruchirapalli)

Tiruchirapalli, India

B.TECH IN PRODUCTION ENGINEERING

May 2015 - July 2019

Relevant Classes

- **Coursework:** Data Structures and Algorithms, Computer Organization, Probability and Statistics, Product Design & Development
- **Others:** 6.046 Advanced Algorithms (MIT), 6.858 Computer Systems Security (MIT), 6.034 Artificial Intelligence (MIT), Advanced Cryptography (Stanford), Design and Analysis of Algorithms I & II (Stanford), Bitcoin & Cryptocurrency Technologies (Princeton)

Relevant Skills

- **Languages:** Go, Python, Javascript, C, C++, HTML&CSS, Shell, Lua, Ruby, Assembly, MySQL
- **OSes:** Linux (Debian, Ubuntu), MacOS, Windows (98-10)
- **Tools:** Git, MongoDB, Node.js, Rails, React.js, Redis, Apache, NGINX, LXD, Dotty, Jenkins

Research Experience

Tsai Center for Innovative Thinking at Yale

New Haven, USA

BACKEND DEVELOPER

May 2019 - July 2019

- Worked on openclimate, a platform for displaying climate pledges of non state actors
- Researched into different MRV (Measurement, Reporting and Validation) methodologies to prevent acceleration of climate change

MIT Media Lab Digital Currency Initiative

Cambridge, USA

BLOCKCHAIN RESEARCHER

December 2018 - January 2019

- Worked on openx, a smart interface for next generation funding models powered by IoT and blockchain based data
- Researched into how identity of IoT devices can be used to build a pseudonymous reputation system on the blockchain

MIT Media Lab Digital Currency Initiative

Cambridge, USA

BLOCKCHAIN RESEARCHER

May 2018 - June 2018

- Worked on lit, the Bitcoin Lightning Network implementation at the MIT Media Lab's Digital Currency Initiative
- Researched into novel Proof of Stake (PoS) systems, gossip protocols and discussed on their applicability in the real world

École Normale Supérieure

Remote

FUZZING RESEARCHER

May 2017 - August 2017

- Worked on afl, a dumb fuzzer for mutating inputs and finding vulnerabilities
- Looked into how different fuzzers mutate inputs and looked to develop better fuzzing methods

Startup Experience

BitHyve

Remote

RESEARCH AND DEVELOPMENT LEAD

January 2019 - PRESENT

- Head of the Bithyve Research Initiative, looking into new ideas on Bitcoin and implementing them

The Musicoin Foundation

Hong Kong, HK

FOUNDING TEAM MEMBER & LEAD DEVELOPER

June 2017 - February 2019

- Co-Founder of the Musicoin Bounty Program which incubates innovative ideas on Music and provides funding for research and development
- Co-Maintainer of the Musicoin Wallet and go-musicoin repositories which serve as interfaces for interacting with the blockchain

Frrole AI

Bangalore, India

BACKEND DEVELOPER

May 2017 - July 2017

- Implemented text and image based analytic algorithms for parsing data from Instagram
- In charge of server maintenance for different Apache Kafka instances on Microsoft Azure

Volunteer Experience

AIESEC in Thailand

Nakhon Pathom, Thailand

ENGLISH TEACHER FOR STUDENTS

Dec. 2015 - Jan. 2016

- Taught English to primary and secondary school students aged between 8-14
- Developed creative ideas to make learning English interactive and interesting