

# HRITTIK BHATTACHARJEE (Full-Stack Web Developer)

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Contact of previous employers for referral:

**Rahul Tyagi** (Co-Founder, Lucideus Technologies): [rahul.t@lucideustech.com](mailto:rahul.t@lucideustech.com)

**Munesh Ahuja** (Global Delivery Head, Network Intelligence (India) Pvt. Ltd): [munesh.ahuja@niiconsulting.com](mailto:munesh.ahuja@niiconsulting.com)

## PROJECTS AND RESEARCH:

### SWAVE – A Blockchain-based Cryptocurrency in JavaScript 2019

- The API offers functionality to create Wallets, make transactions, implements Proof of Work for mining blocks of transactions from the Transaction Pool and implements SHA256 hashing and Chain validation & replacement.
- The Front-end allows interacting with the blockchain system through various API calls.
- The application supports up to 1000 peer nodes through a Pub-Sub architecture.
- Node.js, Express, React

### WHEREDEVSTDEV – A Curated Tech News Feed 2019

- A CRON job causes Server to communicate with various News APIs and load articles into a Pre-Review collection.
- Articles are sent to and approved by admins via a Telegram Bot, approved articles are loaded into a Post-Review collection and a JSON API endpoint is served for the Front-End Client to communicate with.
- Node.js, Express, MongoDB, React, React Router

### WETAKK – A Forum to Connect and Communicate with Friends & Family 2019

- Server implements authentication & authorization, creates and stores user data and messages.
- The Front-End allows users to login/sign up, post updates to and view posts sent by other registered users.
- Node.js, Express, MongoDB, React, Redux

### TALK AT YA 2019

- A Chat Application utilizing Web Sockets for users to create/join Chat Rooms and get the conversation going.
- Node.js, Socket.io, jQuery

### Algorithmic Trading in Python 2019

- Programs to demonstrate quantitative finance and trading algorithms using Python, including Sharpe-Ratio Portfolio Optimization, CAPM, Pairs Trading Algorithm, Bollinger Bands Trading Algorithm, etc.
- Python, NumPy, Matplotlib, Pandas, Quantopian

### Web Security Challenges in Node.js Applications 2018

- Published: International Journal of Emerging Technologies in Engineering Research (Vol. 6, Issue 5).
- Addressed potential attack vectors on a Node.js web application and discussed how they can be prevented.

## WORK EXPERIENCE:

### **Cybersecurity Analyst - Team Lead** 02/2019 to 09/2019 Network Intelligence (India) Pvt. Ltd. Mumbai, India

- Lead and managed the IT Security Process for a major Bank. Presented MIS reports to management.
- Executed Web/Mobile App Security, Network VA/PT, Config Audits & Source Code Review Assessments.

### **Intern – InfoSec Trainer & Analyst** 10/2018 to 12/2018 Lucideus Technologies Delhi, India

- Imparted classroom and corporate training in hacking and securing web applications and networks.
- Implemented significant changes and improvements in course curriculum, outreach and delivery.

## EDUCATION AND CERTIFICATION:

<b>Certified Ethical Hacker (CEH v10)</b> EC Council	<b>2018</b>	<b>Certificate in Core Java</b> SRM Axis Intellects	<b>2018</b> Chennai, India
<b>CCNA Routing &amp; Switching</b> CISCO	<b>2018</b>	<b>Class 12 (ISC)</b> St. Xavier's Collegiate School	<b>2014</b> Kolkata, India
<b>B. Tech – Computer Science and Engineering</b> SRM Institute of Science & Technology Chennai, India	<b>2018</b>	<b>Class 10 (ICSE)</b> St. Xavier's Collegiate School	<b>2012</b> Kolkata, India