

# Rihan Pereira

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## EDUCATION

### MUMBAI UNIVERSITY

#### BE IN INFORMATION TECHNOLOGY

July 2010-2014 | Mumbai, MH

St. Francis College of Engineering

### THOMAS BATISTA J COLLEGE

#### GRADE-12(SCIENCE)

Feb 2010 | Mumbai, MH

### ST. AUGUSTINE HIGH SCHOOL

#### GRADE-10

March 2008 | Mumbai, MH

## LINKS

blog:// [swlogs.me/blog](http://swlogs.me/blog)

Projects:// [swlogs.me/DIY](http://swlogs.me/DIY)

github:// [rihbyne](https://github.com/rihbyne)

goodreads:// [goodreads.com/rihbyne](https://goodreads.com/rihbyne)

soundcloud:// [@rihan](https://@rihan)

quora:// [Rihan-Pereira](https://Rihan-Pereira)

## COURSEWORK

### UNDERGRADUATE

Computer programming I & II

Data Structures and Algorithms

Object-Oriented Design and Principles

Operating Systems

Cryptography

Computer Networks

Database and Storage Management

Software Testing and Quality Assurance

## SKILLS

### TOOLS & PROGRAMMING

Extensive:

Nodejs • Python • Javascript • Unix

Git/SVN • Emacs

Comfortable:

Java • NoSQL • RDBMS

Familiar:

Memcache

## ACHIEVEMENTS

2017 3x Best Performer recognition  
in Bitstreet's newsletter

2007 1<sup>st</sup>/10 Inter-Class Music

2006 1<sup>st</sup>/13 Inter-Class Music

2004 2<sup>nd</sup>/5 Inter-Class Art

2004 3<sup>rd</sup>/6 4x100 Mts. Relay

2002 2<sup>nd</sup>/6 4x100 Mts. Relay

## EXPERIENCE

### BITSTREET TECHNOLOGIES | SOFTWARE DEVELOPER

Jan 2016 – present | Mumbai

- Solid exposure in logical and persistence tier of their multi-tier architecture. Currently involved in the development of Wallet as a Service(WaaS) which runs on bitcoin full-node supporting on-chain/off-chain transactions.
- Code management lead. Encouraged use of **Git-flow** among teammates.
- Developed Multi-factor Authentication(2FA) with backup & recovery options.
- Secured user accounts using **salting & hashing** technique.
- Became familiar with and thereafter used **HMAC Authentication & Signature Verification** applied to JSON-REST/RPC API calls.
- Studied & implemented **Cryptographic Nonce** as a middleware in logical tier as a defense against replay attacks.
- Developed code to enable stateless cursor based pagination API at scale, spanning data over multiple collections. Packaged it into portable library as it was reused twice in different application context in production.
- Used **software multitenancy** on application server to share common set of resources among different merchants using (Role-based Access Control)RBAC and database isolation.
- Documented project module workings and manual test cases.

### AASAANJOBS | SOFTWARE DEVELOPMENT ENGINEER I

Dec 2014 – July 2015 | Mumbai

- Exercised acquired understanding of DVCS tool Git, learned to resolve merge conflicts, branching, hotfixes, stash, git-flow.
- Refactored and wrote new responsive UI.
- Wrote Javascript code to handle CRUD endpoints and manipulate it for dynamic UI experience.
- Applied understanding of Python/Django's MVC & ActiveRecord.
- wrote python/js scripts to perform database cleanups and automate notifications triggering.

## PROJECTS & ARTICLES

### THE MONEYPOT PROJECT | CASE STUDY

March 2016 – April 2016

- Contract project **moneypot.com** undertaken on behalf of my firm to analyze & borrow its web system internals.
- open/closed bugs on issue tracker.

### ELECTRICAL APPLIANCE CONTROL & INTEGRATION

Feb 2014 – April 2014

- Senior year undergraduation application project inspired from Internet of Things(IoT), machine to machine(M2M) concept.
- Reading data through sensors, driving appliances interfaced to Raspberry Pi.
- Developed end user monitoring and control panel - a daemon, WebUI, and command-line.

### TIMVIDEOS.US

April 2013 – June 2013

- A proposal submitted as part of GSOC 2013 which articulates implementation details for one of the many project ideas **Bug Reporting tool**.