

# 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

Intro. to Computer Science

Data Structures and Algorithms

Object-Oriented Design and Principles

Operating Systems

Cryptography

Computer Networks

Database and Storage Management

Software Testing and Quality Assurance

## SKILLS

### PROGRAMMING

Extensive:

NodeJS • Python • Javascript • Unix

Git • Emacs

Comfortable:

Java • NoSQL • SQL

Familiar:

Memcache

## ACHIEVEMENTS

2017	4 <sup>th</sup> /5	Top Performers at work
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,Sports
2002	2 <sup>nd</sup> /6	4x100 Mts. Relay,Sports

## EXPERIENCE

### BITSTREET TECHNOLOGIES | SOFTWARE DEVELOPER

Jan 2016 – present | Mumbai

- Solid exposure in logical and persistence tier of their multi-tier architecture. Currently developing tool for processing Bitcoins which compliments manual labour.
- Code management lead. Encouraged organized Git workflow among teammates.
- Secured user accounts using **salting & hashing** technique.
- Became familiar with and thereafter used **HMAC Authentication & Signature Verification** applied to API calls.
- Studied & implemented **Cryptographic Nonce** as a middleware in logical tier to refuse replay attacks.
- Developed code to enable stateless cursor based pagination API at scale, spanning data over multiple collections. It was reused twice in different application context on production.
- Developed code to enable software multitenancy on application server to share common set of resources among different merchants using (Role-based Access Control)RBAC and database isolation.
- Produced comprehensive documentation

### AASAANJOBS | SOFTWARE DEVELOPMENT ENGINEER

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 static UI.
- Wrote Javascript code to handle CRUD endpoints and operate on it for dynamic UI experience.
- Applied understanding of Python/Django MVC, used Django's built-in ORM to write aggregate queries in controllers.
- wrote python/js scripts to perform database cleanup and automate SMS triggering.

### GOOGLE SUMMER OF CODE 2013 | PROJECT PARTICIPANT

April 2013 – June 2013 | Google Melange

- Drafted a technical project proposal about automating bug reporting for participating organization **Tim Videos**.

## PROJECTS

### ELECTRICAL APPLIANCE CONTROL & INTEGRATION

Feb 2014 – April 2014

- Final 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