Rihan Pereira

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Experience

Bitstreet Technologies   Mumbai, India
Software Developer   *Jan 2016 – Dec, 2017*

- Managed multiple repositories using git-flow model among team of 4 developers.
- Contributions in logical and persistence tier of experimental **wallet app**, bitcoin(BTC)/bitcoin cash(BCH) gateway integration.
- Secured user accounts using **salting & hashing** and Multi-factor Authentication(2FA).
- **HMAC & Signing** applied to JSON-REST API calls.
- Studied & implemented **Nonce** between internal services.
- Developed stateless cursor based **pagination API** spanning documents over multiple MongoDB **collections**(*was reused twice in different application context in production*).
- Used **software multitenancy** on application server for resource sharing among different tenants.
- Produced supportive documentation and designed system diagrams.

Aasaanjobs   Mumbai, India
Software Development Engineer I   *Dec 2014 – July 2015*

- Refactored and wrote new responsive UI.
- Wrote Javascript code to handle REST endpoints and maniputate it for dynamic UI experience.
- Wrote automated UI tests using PhantomJS - headless browser environment.
- Write python/js scripts to execute database backups, traverse spreadsheet data to fanout notifications.
- learned hands-on git best practices - resolving merge conflicts, branching, hotfixes, stash, interactive rebase.

I maintain my list of active and past projects at rihbyne.github.io/diy .

Education

California State University, Channel Islands   California, U.S.A
Master of Science(M.S) in Computer Science   *Jan 2018 – Dec 2019(expected)*

- Currently working on my final project towards master's degree. Initial work can be found here.
- Lo-fi sketches & codework on two-way length converter & interactive dashboard - train/load/save handwritten digit classifier and display metrics of its performance.
- Presented '*Macaroons as better web cookies*' as part of Security class
- Presented '*Scalable Web Architectures(SWA)*' as part of Graduate Seminar
- Occasionally do bug-fixes of open-source projects.
- Implemented CBC mode to systematically encrypt/decrypt a large plaintext file using 16 rounds of 64-bit DES.

Mumbai University, St. Francis Institute of Technology   Mumbai, India
Bachelor of Engineering(B.S) in Information Technology   *June 2010 – May 2014*

- Senior year project on data-driven IoT application using nodeJS/expressJS/raspberrypi

Skills

Tools & Programming: Python/Javascript/Node.js/Java, HTML5/CSS3, React(*learning*), AWS(*learning*), emacs/intelliJ. REST APIs in Django/Flask/Expess.js. Familiar with Memcached, MongoDB, MySQL. Linux power user. Git.

Achievements

- Awarded and recognized as a "Top Performer", "Best Performing Team", "Meeting Expectations Plus Performance" for the year 2017 at Bitstreet Technologies.