

# John Pereira

e: [john@jnx.me](mailto:john@jnx.me)  
m: +94 714 326390  
w: [jnx.me](http://jnx.me)

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## Personal Profile

With over 15 years in the technology space, my area of expertise lie in API and large-scale Web application development and its related constellation of technologies and processes. I enjoy the challenge of learning new technologies and discovering problem areas where my domain expertise can be applied.

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## Core Competencies

- System design / Effort estimation
- AWS Platform
- PHP / Javascript / NodeJS
- MySQL / PostgreSQL / NoSQL
- Node JS / Express / Socket.io
- Docker / AWS ECS
- RESTful APIs / Postman
- Profiling / Optimizing / Scaling
- RabbitMQ / Gearman
- Elastic Search / Algolia
- Hybrid Apps / Firebase
- Require JS / r.js / Grunt
- CodeIgniter / Laravel / CakePHP
- Backbone JS / Marionette JS
- Slack / Hipchat / Telegram bots

## Professional Profile

- Highly experienced in identifying customer requirements and translating them into product features. For the past 9 years, I have been involved in a leadership role with key responsibilities that include delivering a successful product and being a force multiplier for the rest of my team.
- I am an AWS Certified Solutions Architect (Associate) and have multiple years of experience working with the AWS platform. Highly proficient at working with ECS / ECR, IoT and other services.
- Over a decade of experience in working with PHP and engineering everything from standalone web applications to large scale ERPs to RESTful APIs.
- Over a decade of experience in working with large MySQL databases and fine-tuning the performance of MySQL servers. Also familiar with document based datastores such as MongoDB and FireStore database.
- Over 6 years experience with designing and developing high-performance front-end applications and hybrid applications using Javascript.
- Highly skilled at using profiling tools to identify and fix bottlenecks in front-end and server-side environments.
- Experienced at creating real-time applications using NodeJS + Sockets + RabbitMQ.
- Three years of experience in developing Chrome Apps, Firefox Addons, Cloudflare Apps, Slack / Hipchat / Telegram / MS Team bots and Electron apps.

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## Professional Experience

### Senior Tech Lead at Salpo Technologies

February 2019 - March 2021 in Sri Lanka  
<https://salpo.com/>

Salpo builds award winning custom software platforms and mobile apps to help businesses grow and solve critical organizational problems.

During my tenure at Salpo, I primarily took the role of lead for the team that was developing the Plasmio micro-learning platform. Plasmio is powered by a micro-services platform built around EnvoyProxy and Consul. The entire solution is deployed to AWS ECS using CircleCI and uses Docker containerization. On ECS, both the micro-services platform and the Plasmio application are load balanced and auto scaled for maximum availability.

- Created the first version of the micro-services platform that powered the Plasmio API and application.
- Developed and deployed a service mesh by creating an API for EnvoyProxy based on their xDS REST protocol.

## Personal Information

### Highest Level of Education:

BSc (Hons) in IT, awarded by SLIIT

### Primary Education (A/L):

St. Joseph's College, Colombo 10

### Date of Birth:

March 27th, 1984

### Certification:

[AWS Certified Solutions Architect – Associate](#)

### Linkedin:

[linkedin.com/in/jnxpereira](https://www.linkedin.com/in/jnxpereira)

### Stackoverflow:

[Stackoverflow.com](https://stackoverflow.com)  
(inside the top 0.5% of contributors)

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- Designed a solution and led the team that built a backend for an AWS IoT platform based lockbox product.
- Led a team to improve estimation skills across the company after subpar estimations were identified as a primary reason for project overrun.

## Co-Founder at Instawell

January 2012 - December 2018 in India/Singapore  
<https://instawell.com>

Instawell is a community-driven marketplace for self-help plans by mental health professionals. The service is available over the Web and through dozens of external platforms via deep API integrations.

As the technical co-founder, I was the lead in designing and implementing all aspects of the technology stack. Technologies included PHP7 for core functionality and API support. NodeJS, ExpressServer and Socket.io for real-time sockets. RabbitMQ as the message broker to communicate between services. MySQL, Redis and ElasticSearch were used as datastores.

The front-end of the app was composed of RequireJS modules written in Backbone + Marionette. Build and deployment were automated via Grunt, r.js and Github. API endpoints were monitored and continuously tested using Postman test scripts.

- Created a rich text based conversation flow to integrate the marketplace API with external platforms such as Slack, KiK, Skype, MS Team, Telegram, IFTTT, HipChat and SMS.
- Scaled platform by identifying caching bottlenecks, inefficient reads and unnecessary resource allocation. These upgrades were validated when the Instawell Chrome App was featured on the Chrome Extensions Store under the Health & Wellness category.
- Created a JS middleware that allowed the front-end app to function within Web as well as Hybrid environments like PhoneGap, Trigger.io and Kik Messenger.
- Duties also included supervising and working with external service providers, day-to-day development, project management, monitoring platform health and identifying and responding to any developing issues.

## Early Employment

### Software Engineer at neXva

January 2011 - March 2012 in Colombo  
<https://nexva.com>

### Software Engineer at Proporta

May 2008 - December 2010 in Colombo  
<https://proporta.com>

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References available upon request.