

# Dheeraj Sayala

Full-stack Software Engineer

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## EXPERIENCE

### ImageWork, White Plains - Senior Software Engineer

2013-Present

- Developed and deployed web applications to AWS, Google Cloud for New York City and State govt. agencies
- Built modern, complex, responsive SPAs with rich visualizations, interactions using React and RESTful APIs
- Processed unstructured data, documents using OCR and fed it into Elasticsearch - exposing search, filtering and reporting capabilities to end users
- Enhanced document systems to enable splitting, merging, editing of scanned PDF documents stored on Azure
- Built an app that simplifies patient authorization with custom forms, domains and e-signatures (HIPAA)
- Awards for our counterparts in the Government for innovation, delivery, usability and accessibility  
[corpinfo.panynj.gov](http://corpinfo.panynj.gov) [ehipaa.com](http://ehipaa.com) [claimconnect.com](http://claimconnect.com) [advancewarningsystemnyc.org](http://advancewarningsystemnyc.org) and apps for NYPD, FDNY, DoITT

### Reuten Consulting, Melbourne - Freelance Web Developer

2013-2017

- Architected/developed/maintained entire Django based stack and deployed to AWS for the sites listed below.
- Implemented highly interactive, content-rich forms, dashboards, search engines for in-house and third party users
- Created a custom e-commerce site with payment processing, recurring payments with multiple gateways
- Built custom reporting admin site to aggregate Google, Mailchimp, in-house analytics and send email and PDF reports, tested on all email clients, to suppliers
- Optimized frontend performance. Improved backend load times using caching with Varnish, Memcached, Redis
- Cut infrastructure costs by 50% by analyzing usage on AWS. Create more resilient backup solutions
- Worked with auditors to make a custom accounting app in React, Django for an Australian political party  
[architectureau.com](http://architectureau.com) [selector.com](http://selector.com) [productnews.com.au](http://productnews.com.au) [architecturemedia.com](http://architecturemedia.com)

### Agiliq, Hyderabad - Software Engineer

2011-2013

- Wrote bespoke end-to-end web applications for clients, several involving evolving external APIs

### Wipro Technologies, Gurgaon- Data-warehouse Engineer

2008-2010

## OTHER PROJECTS

### Quipio (iOS and Web) | [quip.io](http://quip.io)

- Implemented the REST API for an iOS application. Extended the API later for the public web app

### Data and map visualizations

- Visualized NYC taxi data during holiday season using D3, Leaflet [taxi.imagework.com](http://taxi.imagework.com), [vaccine.civiguard.com](http://vaccine.civiguard.com)
- Experiment connecting citizens to first responders during emergencies using Fusion Tables [civiguard.com/ezfinder](http://civiguard.com/ezfinder)

### Experiments to improve location accuracy of 911 calls

- Built PoC apps using Ionic/Cordova to use Bluetooth Low Energy sensors for location accuracy [alma.io](http://alma.io)

## SKILLS

**Frontend** JavaScript, React, D3.js, Vue, BackboneJS, Lodash, HTML5, CSS3, Grid, Flexbox, Leaflet  
Tooling like Yarn, Webpack, Gulp, Sass, Babel, Postman and Browser Devtools

**Backend** Python, Django, NodeJS, RESTful APIs, Nginx, Redis, Varnish, Memcached, Apache Solr, Elasticsearch  
SQL and NoSQL, MySQL, PostgreSQL, MongoDB, AWS, Google Cloud, Azure, Rackspace, Firebase

**Tools** Linux, Git, Vim, Bash, tmux, gdb, ipdb, Unit testing, Selenium, BDD, Browser Devtools

## EDUCATION

National Institute of Technology, Calicut - B.Tech

2004-2008

Bachelor of Computer Science and Technology