Kashyap H. Patel

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EDUCATION

Rutgers, State University of New Jersey — New Brunswick, NJ
Master of Science in Computer Engineering; GPA: 3.85 — *Sept. 2013 – May. 2015*

Birla Vishvakarma Mahavidyalaya — Anand, India
Bachelor of Engineering in Electronics and Telecommunication Engineering; CGPA: 8/10 — *Aug. 2009 – July. 2013*

EXPERIENCE

Cortx — Baltimore, MD
Full Stack Developer — *Jun 2015 - Present*

- **RabbitMQ**: Setup RabbitMQ servers and wrote RabbitMQ queuing system for reliable job forwarding to our AI engine using Pub/Sub pattern. Improved performance by 4x over traditional Redis backed Push based system.
- **Spintax Widget**: Built a comprehensive widget in React that tokenizes HTML spintax for seamless editing in raw/rich text mode with accessibility in mind. Used Redux/ImmutableJS for fast, efficient token list rendering for super large spintax. Version-ed over the old editor written in jQuery to support HTML spintax and improved performance that delivers 60fps throughout any changes.
- **Transformation Widget**: Wrote, modeled data structure for efficiently grouping different sort of grammatical errors and warnings to create an interface similar to Grammerly's editor. It has DraftJS content editor with Websocket support for dynamic real-time corrections to be relayed from our backend service.
- **Marketplace**: Using Rails API and Server Rendered ReactJS, created marketplace app with best practices of Service Oriented Architecture and Test driven development. It provides a platform for SEO service providers to showcase and sell their packages. It includes a comprehensive messenger for user to communicate over particular item or dispute, payment processing using Stripe or Paypal, a static site generator for admin to verify sellers by mocking the whole process.
- **ArticleForge**: Created Monolithic Rails Application with jQuery that allows users to generate, modify and export articles based of keyword with Wordpress integration, with post scheduling feature to automate Wordpress posts. Also, wrote a full fledged payment system. Used Redis to communicate with our AI engine to submit and track jobs.
- **Rails and React Starter Kit**: Created a full stack starter kit private repository for our new projects with JWT based authentication, backed by Postgresql, Rails API service, NextJS for frontend and custom routing support. Also features super quick and easy guide to deploy using Capistrano custom tasks. Also, configured Nginx Server to support Websockets and both projects on same server.

WebMD — New York, NY
Intern Web Developer — *Jul 2014 -Aug 2014*

- **ASP.NET**: Created a web application for creating, modifying, grouping JIRA issues using MVC architecture for DevOps team of WebMD iOS team.

Rutgers, State University of New Jersey — New Brunswick, NJ
Part Time Lecturer — *Sep 2014 - May 2015*

- **Teaching Assistant - Computer Applications in Business**: Taught, set course work and assignments in HTML, CSS, JavaScript and Advanced Microsoft Excel to Business Undergrads.

PROJECTS

- **MusicHall**: Created a fast Django Web Application which lets you create mix and match YouTube playlist by aggregating top songs of our favorite artist, genre, country/language and/or individual songs.
- **Math Solver**: Created an Android Application which evaluates arithmetic, trigonometric and algebraic expression by scanning or photo using Tesseract OCR module and Wolfram Alpha API.
- **Stock Forecaster**: Web application in Django for personalized stock portfolio with short and long term prediction, with market charting using historical data.
- **Content Routing Protocol**: Designed and implemented a multi-threaded "Content Routing" protocol that delivers named content files on Linux Environment in C++.

PROGRAMMING SKILLS

- **Languages**: JavaScript, Ruby, C/C++, Python **Technologies**: React, RabbitMQ, Redis, RxJS, PostgreSQL