

Dave Yu

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Seasoned and adaptable full-stack software engineer with extensive experience in backend development, DevOps and agile project management.

Education

B.S. in Computer Science, University of California, San Diego, 2004

Professional Experience

Joany - Los Angeles, CA

2017 – 2018 Senior Software Engineer

- Implemented migration of the core Ruby on Rails application from Heroku to Kubernetes on AWS and managed project requirements, expectations, and progress with stakeholders and consultants. Performed management and troubleshooting of Kubernetes clusters using Terraform and Kops across multiple AWS accounts.
- Configured continuous integration and continuous delivery pipelines in Codefresh, using Docker compositions for test suites and Helm charts for deployment to Kubernetes clusters.
- Provided engineering leadership to drive process improvements, including implementing a Kanban process for the engineering team to more adeptly shift with product requirement and priority changes. Created issue tracking boards, workflows, and reports in JIRA to support and communicate our process as it evolved.
- Performed code, architectural and design reviews and mentored junior developers.

Spokeo - Pasadena, CA

2016 – 2017 Principal Software Developer

- Provided technical leadership and agile project management for a small team of engineers chartered to monitor and improve the performance of Spokeo's consumer products, including server response time, client-side rendering and everything in between. Worked closely with DevOps, QA, Product Management, and other engineering teams to continuously deliver performance improvements to all tiers of the application stack.
- Architected and implemented a highly-performant, scalable Node.js HTTP caching service that stored billions of web pages. This cost-effective solution brought real-world response times of over 300ms down near 100ms, and was the subject of an AWS re:Invent 2016 Case Study ("Spokeo Improved Web Application Response Times with EFS (STG206)").
- Designed infrastructure and developed services to populate and manage the HTTP cache which drove fleets of Ruby on Rails applications to render web pages at rates over 600,000 requests/sec and utilized AWS EC2 Spot Fleets to minimize costs. Monitored and identified bottlenecks in all services involved downstream, including Ruby on Rails applications, MySQL/Aurora databases, Elasticsearch clusters, and DynamoDB tables.

2014 – 2015 Senior Software Developer

- Full-stack Ruby on Rails development of new features for the Spokeo consumer website.

- Helped develop and promote new agile project management processes for Spokeo's growing engineering teams and managed the technical aspects of migrating issue tracking and wiki content to Atlassian JIRA and Confluence.

YP - Glendale, CA

2012 – 2014 Lead Software Engineer (Production Operations Tools)

- Managed an agile team of six developers to provide development resources to the Production Operations group, which is responsible for all applications once they are released from QA to production. The team was responsible for a growing, diverse portfolio of over two dozen highly available services ranging from live application monitoring to issue tracking and source control.
- Designed and developed Ruby on Rails applications to automate and simplify various service request and provisioning systems to improve time-to-resolution and service quality for groups across Technical Operations and IT support.

2010 - 2011 Software Engineer (Productivity and Collaboration Tools)

- Formalized and implemented a software development cycle where there previously was none.
- Developed customizations and improved performance of the company's large-scale JIRA and Confluence installations.

Tillster (Formerly EMN8) - San Diego, CA

2007 – 2010 Lead Tools Engineer (Software Engineering Department)

- Implemented the Java server-side components for a kiosk health reporting system that provided near real-time status of remotely deployed kiosks. The feature was pivotal to gaining a major fast food brand's full acceptance of the OrderM8 kiosk solution for their restaurants.
- Filled the role of lead administrator and developer for JIRA. Initiated workflow and process changes, and developed JIRA plugins to improve software development processes.
- Created a Java desktop application to automate quality control testing of kiosk hardware devices, reducing the number of kiosks deployed with faulty devices.
- Proposed and developed a digital menu board prototype that became a centerpiece of the company's showroom and was displayed for all visiting executives from client companies.

2005 – 2007 Team Lead Software Engineer (Brand Services Department)

- Led a team of six data technicians and acted as a liaison to the Software Development Department, along with increased involvement in core software development
- Designed and developed ASP.NET web applications for clients and internal users to create and track change requests for kiosk menus, replacing project management by email and phone.
- Implemented device drivers in Java for new coin dispenser hardware for the OrderM8 self-service kiosk.
- Created a Java desktop application to visualize and manage kiosk menu data. Previously, all data was managed by hand using SQL queries. The application was showcased at trade shows and was presented to potential clients.

2004 – 2005 Software Engineer (Brand Services Department)

- Created internal software tools to automate and/or increase the efficiency of tasks related to managing kiosk menu data.