Kerry Kartchner

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Proficiencies

Full-stack development across SDLC phases from ideation through runtime operations
Mobilizing teams to deliver exceptional outcomes across boundaries with integrity and transparency
Mobile and Front-end: Reactive (ReactJS,Svelte,RxSwift), typescript/JavaScript, iOS, Swift, HTML/CSS
Backend: Node.js, Java, C++, C, Python, ReST, SQL(MySql/Postgresql) Apache, Redis, AWS, Linux, BSD

Employment History

Intuit Principal Engineer

February 2012 - September 2024

App Experiences Platform - Mobile "AppFabric"

Organizational Proficiencies: Leading by Influence, Stakeholder Engagement, Architectural Design **Key Accomplishments:**

- Drove strategic platform capabilities bringing analytics insight, development, and policy management features to 36 development teams across the enterprise
- Reduced deployment time by 14%, and app size reductions of 43% on average

Technologies: Node.js, iOS (Swift, Objective-C), typescript, Javascript, ReactNative, ReactJS, Java **Generative Al**

- Architected mobile "SmartUX" components for Generative LLM experiences deployed to > 1M customers
- Coordinated code review and mentoring 9 for Staff and Senior developers on iOS and Android
- Design and coding for Plugin Registry enabling modular discovery for RAG integration to Generative AI experiences

Secure Web & Mobile Client Networking

- Revised design of Key Customer operational metric sharing for web experiences embedded across 3 turbotax apps
- Defined technical requirements and design for Network Data Layer & Network Error collection and coordinated development across BUs
- Design and development, and review for DNS-Over-HTTPS/TLS support for mobile security use cases
- Designed security policy assertion framework to allow runtime policy assertions in coordination with Security team

Network Utility Services

- Architected Coordination and technical integration into common logging, behavioral, A/B testing and utility services, plus implementation in ObjectiveC + Swift for iOS
- Designed and led development team of shared logging components for web and mobile clients to capture operational analytics, remote-version Upgrade management services
- Publish and Subscribe event management framework and integration into web & native mobile applications
- Reliable transmission module handling offline & intermittent collection of events
- Gathered requirements and stakeholder feedback into shared component interoperability across various product teams
- Developed Check Image Deposit Experience in ReactJS + WebRTC for web and mobile flows

Principal Engineer/Architect

Enterprise Business Services - Marketing Platform

Key Accomplishment: Rollout of first Enterprise Content Management System for Intuit SMB Channel Marketing organization

Technologies: Node.js, Ruby-on-Rails, Java, Amazon Web Services, SiteSpect, Ensighten, Adobe Experience Manager(CQ), CDH4(hadoop)

Page Registry / Metadata services for registering page entities for marketing analytics

- Detailed a complete architecture (competitive analysis, design, services, UI interaction flows, workflow process)
- Aligned with data analytics stakeholders and interfaced tightly with engineering teams
- Defined ingestion pipeline and refinery warehousing clickstream and 3rd-party data in Hadoop
- Communicated architecture with enterprise architects and business stakeholder for alignment

AWS Hosting / Cloud Steward for Global Marketing Sites

- Defined deployment and development architecture for migration to cloud hosting on AWS for Showroom and Novo projects
- Architecture for integrating testing services into AWS CI/CD pipeline
- Integrated best-practice performance monitoring design from Mint.com for global web marketing
- Refined deployment and development architecture for node.js deployment on AWS
- Implemented dynamic route synching for Node.js web tier fronting Adobe CMS, enable routing changes without deployment

"Showroom" CMS / Integration of Showroom Ruby-on-Rails application to Adobe CMS

- CMS initial evaluation of requirements, vendor selection, costing
- Designed Architecture enabling dynamic serving of content combining RESTful services and content authored in Adobe EM
- Defined deployment and development architecture for migration to cloud hosting on AWS
- Defined technical integration architecture for integrating clickstream analytics, web hosting, CDN, and backend services with Adobe EM
- Implemented cookie governance monitoring modules
- Designed and implemented ReSTful services in Java, including EHCache integration

Yahoo!

January 2006 - February 2012

Principal Engineer [IC5]

Flex Force (Tiger Team)

November 2009 - February 2012

Development Proficiencies: PHP, C++, Objective-C, Python, Zend extensions, opency, MySQL, iOS, Scale

Yahoo Technologies: shmproxy, vespa, ydbm, mdbm, ymdb, messenger protocol, yapache, YUI

Yahoo Bubbles & Yahoo Local iPhone App / Prototype to provide location-based chat and media sharing

- Led development team in backend services, design and implementation phases
- Implemented photo sharing services and iOS UI integration
- Implemented proximity and neighborhood selection logic and interface

Backend Services

- Utilized C++, Perl, Java to extend existing functionality for critical partner integration to Yahoo Premium Billing Services
- Ad Server Monitoring Wrote client library for Sherpa distributed hashtable service (Java) to provide histogram aggregation for Latency and Timeout metrics over various intervals

Senior Engineer [IC4]

Yahoo Buzz / Content Aggregration

June 2008 - October 2009

- Migration and production support for Buzz International GA release
- Rewrote and optimized vote aggregation server and asset management re-architecture
- Updated Moderation Review system with vote-spamming protection and integrated with mechanical-turk moderation system
- Standardized Web Service API layers and integrated Big Brother abuse filter integration
- python-based image-processing server (cropping, scaling, face detection [via openCV lib])

OpenMail / Applications that can plug into Yahoo Mail (Prototype)

January 2008 - May 2008

- Initial design and investigation, requirements gathering
- Implemented Application storage and management for prototype
- XML over HTTP APIs to back client library interfaces

MvM / Yahoo Messenger for the Web interfaced with external social sites

2007

- Developed Lattice web-service framework used across several Yahoo! properties
- Designed, implemented Social Network integration framework
- PHP-based shmproxy services [contrib to proxyio zend extension]
- Built XML interfaces for Messenger protocol for web messaging client APIs
- Contributed to design of vitality platform for integrating events on myM and Facebook/myspace/aol

Photos / Development and release of Yahoo Photos 3.0

2006

- Built middle tier PHP interfaces to C++ APIs communicating over shmproxy
- Managed Pixami photobook servers
- Reorganized production monitors

Education

B.S. Computer Science, Iowa State University

B.A. Linguistics, Iowa State University