Patrick Brandt

Digital Architect/Product Developer

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Professional Experience

**The Coca-Cola Company**

Atlanta, GA

*Solutions Architect*

*2014 – Present*

Develop transformational digital products and concepts for Coca-Cola consumer marketing groups

* Designed a machine learning solution for a long-outstanding proof-of-purchase business problem, sold it to the Coca-Cola North American marketing organization, sourced the suppliers and negotiated the contracts for delivery
  + Defined solution using image recognition with a convolutional neural network to extract 14-character product cap codes
  + Led implementation of both a cloud-based API and mobile device SDK for consumer-facing web campaigns and mobile apps
  + Invented a novel machine learning process for proof-of-purchase of consumer packaged goods (patent pending)
* Defined enterprise-scale strategy for AWS serverless application development and deployment, estimated to save 450% over AWS EC2 compute and managed service fees
  + Defined multi-phase roadmap for serverless architecture development and adoption and presented it at the AWS Re:Invent 2016 Conference
  + Launched an open-source organization to support Coca-Cola North America’s serverless strategy
* Defined the architecture for the Share a Coke ecommerce platform: directed architectural decisions towards ensuring PCI compliance, fault-tolerance and stability, and platform scalability

**Huge**

Atlanta, GA

*Solutions Architect*

*2013 – 2014*

Defined enterprise-scale architecture for a new retail automotive venture, EchoPark Automotive, and defined the related product vision for a cross-platform digital experience

* Served as the Product Owner within an Agile development process: defined product development strategy, worked with the customer to understand business goals and with Business Analysts to create and prioritize user stories
* Developed architectural assets including: UML sequence diagrams, network diagrams, entity relationship models, REST API documentation
* Product platform encompassed several channels: desktop web, mobile/tablet web, and in-store display

**MRY**

Atlanta, GA

*Technical Director*

*2011 – 2013*

Directed multiple high-profile digital projects for Coca-Cola: defining architecture, writing code, and facilitating communication between client, agency, and multiple client vendors and partners

* Served as technical lead and architect for Coca-Cola + Spotify’s Placelists platform
  + Defined system architecture and directed a team of 6 developers (front-end and back-end) through an Agile delivery process
  + Defined technology strategy, liaising with Coca-Cola, Spotify, and MRY staff to communicate technical needs and expectations
  + Provided code to both web API and client applications – the platform was built around a .Net MVC web API that serviced a Spotify app and a responsive mobile website built with HTML5/CSS3 and backbone.js
* Served as technical lead for Coca-Cola’s Global 2012 Olympics digital campaign
  + Led a team of 5 developers to build Coca-Cola’s global “Move to the Beat” digital campaign for the 2012 Olympics
  + Served as the inter-agency technical liaison, coordinating development activities among five different vendors and also served as the primary technical contact for Coca-Cola, consulting with their IT and Marketing teams
  + Architected a multi-channel platform including a market localization framework for the Coca-Cola Olympics website and mobile site (supporting 24 languages)
  + Team won multiple awards: Clio in Digital/Mobile Technique, Mashable Marketing Innovator of the Year, and Mixx Award for Content Marketing

**Engauge**

Atlanta, GA

*Software Architect*

*2007 – 2011*

Led the development of several marquee projects as Technical Lead and Architect

* Technical Lead/Architect for the “Great Aussie Steakout” campaign. The campaign reached a peak of 250k requests/minute to OutbackFreeSteaks.com. Campaign site built on AWS – Amazon published a case study featuring my hosting architecture for the site
  + Technologies: PHP with Code Igniter, Apache, Linux, MySql, AWS (S3, CloudFront, RDS, Route 53, EC2, ELB)
* Technical Lead for the following sites: ruthschris.com, georgia.org, exploregeorgia.org, foodlion.com
  + Technologies: C#, F#, .Net MVC, Fluent NHibernate, SQL Server, NUnit, Moq, jQuery, Elmah, log4net, Hudson/Jenkins, NAnt, Sharepoint 2007 (for georgia.org)

**SolTech, Inc.**

Atlanta, GA

*Systems Analyst*

*2006 – 2007*

* Architected a framework for retail software installed on hand-held devices using the .Net Compact Framework and Co-developed a Windows-based "Client Agent" application installed on Point of Service devices located at Saks 5th Avenue retail outlets across the country

**Brandt Information Services, Inc.**

Tallahassee, FL

*Programmer/Analyst*

*2004 – 2006*

* Developed internet-based employee time-management system for the Guardian Ad Litum division of the Florida Department of Justice; written in C# using AJAX, SQL Server, XSL

Education

**Florida State University**

M.S. Computer Science, 2004

Graduate Thesis: *Interaction Design Patterns for Musical Applications*

**University of Central Florida**

B.A. Liberal Arts with Honors, 2001