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**Distributed Network Architecture | Big Data Analytics | Mobile Application Development**

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Detail-oriented programmer and architect with 6+ years' success devising innovative and tailored solutions to meet ever-changing business requirements within diverse industries. Advanced skill with leading-edge programming tools complemented by proven ability to assimilate and rapidly utilize emerging technologies. Solid mathematical knowledge with experience developing comprehensive algorithms and data-processing logic. Specializing in Big Data Analytics, Distributed Network Architecture and Mobile Application Development. *Technical proficiencies include...*

<i>Environments</i>	Windows, UNIX, Mac OSX, Linux (RedHat, CentOS, Ubuntu, ...), AWS
<i>Programming</i>	Javascript, CSS/SASS, HTML5, AngularJS, NodeJS, ReactJS, JQuery, MySQL, CQL, Java, XML, PHP, C/C++
<i>Databases</i>	Cassandra, Solr Lucene, MongoDB, MySql, Redis, Sqlite
<i>Applications</i>	Nginx, Apache, Wordpress, Excel, Word, Jira, Confluence, Powerpoint, Metasploit
<i>Development</i>	Object-oriented Design (OOD), Agile Development, Project Development Management, Solutions Architecture, Technical Documentation, Quality Assurance

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**Professional Experience**

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**CHIEF ARCHITECT & SENIOR MOBILE APP DEVELOPER**, 3/2016 to Present  
SevenTablets – Dallas, Texas

Designed, architected and maintains the STAX framework that is used as a basis for all projects across the company. STAX also includes a massive repository for modular components for code reuse. Manage several projects and supervise several development teams. Currently developing their MAP (Mobile Analytics Platform).

Selected projects include...

- Nana Pet track – Mobile application and web portal for tracking your pet. User can create containment areas on google maps to place their pets in. If a pet leaves the designated area it alerts the user with push notifications, in app notifications and emails. When the pet leaves the designated area the device on the pet also sounds. The annoying tone only stops when the pet re-enters the safe zone. Integrated stripe payment system. Used **ngCordova, Ionic, Cassandra, Solr, NodeJS, Webpack, Sass, AWS, Nginx, Webpack and Git.**
- TrackSafe GPS – Mobile app, web portal, admin portal and Tablet App. Each company is designated their own subdomain when a new account is created for them. Each customer has a warehouse that shows their tools and devices that can be used for tracking. The tracksafe device can be attached to a vehicle or a person. There are bluetooth devices that can be attached to tools. Users can assign tools and users to vehicles. When a tool goes out of range of all devices in that vehicle group then alerts are triggered. A manager can track all tools, users and vehicles in real time. The system is part of an auto scaling cluster in order to simultaneously track thousands of assets in real time. The devices communicate to the server via cell towers. Detailed Analytics System for customers to utilize that tracks all hand offs, device leaving a geofence, SOS alerts, system usage for webportals and apps and device information of all items in the field. There are a dozen other set of reports for displaying information. Built full text search with Solr, used a 3 node cluster for Cassandra, custom reports and analytics. Used **ngCordova, Ionic, Cassandra, Solr, NodeJS, Webpack, Sass, AWS, Nginx, Webpack and Git.**
- Mendr – Mobile App and web portal for online marketplace for photo shopping photos. Users can post a photo to be modified for a fee. A graphic artist modifies the photo and sends back the result. The artist is paid. I worked in a consultant on the project supporting additional libraries and the framework. Built the social integration. Used **ngCordova, Ionic, Cassandra, Solr, NodeJS, Webpack, Sass, AWS, Nginx, Webpack and Git.**
- PHP – Mobile App and Admin dashboard. P2P or Group chat conversations built similar to iMessage. Office news feed, videos, document repository, badge achievement system. An admin can create a new news post, schedule notifications, manage their document repository, manage users and control access for the users. Used **ngCordova, Ionic, Cassandra, Solr, NodeJS, Webpack, Sass, AWS, Nginx, Webpack and Git.**

## **TECHNICAL ARCHITECTURE SENIOR ANALYST, 3/2014 to 3/2016**

Accenture – Seattle, WA; New York, NY; Dallas, TX

Developed large scale applications and emails to be seen by millions of people.

Followed strict schedules with heavy work loads.

Selected projects include...

- **eBay** - Email Marketing, **big data analysis**, email development and CMS development. Through implementation of emails with tracking we were able to effectively calculate email opens, button and link clicks. Through this analysis and with A/B testing we could effectively identify the highest revenue producing designs and emails. We also implemented machine learning algorithms to determine items

that the user would most likely be interested in purchasing. My implementations contributed to a 500-million-dollar increase in revenue. Used **Teradata, Tableau, Java, Eclipse, Git, IBM Clear Case, Cassandra, Hadoop, MySQL, MongoDB.**

- **dexmedia** - Environments Manager, Dev Lead, Application Architect and enterprise architect. Implemented a high performance streaming distributed file storage system to collect copy, ad and image information. Application connected to 8 different SOA and restful services to change enterprise wide client information for customer orders and order items. Used **MongoDB, AngularJS, Sass, Gulp, NodeJS.**

#### **R&D SOFTWARE ENGINEER, 10/2012 to 11/2013**

Northrop Grumman – Colorado Springs, CO

R&D Model and Simulation for Missile Systems. I worked with a team to deliver new advanced technical solutions for the US Military. Projects I worked on improved processes from months to minutes. Required a Security Clearance. Used **Java, Maven, Git, Subversion**

Selected projects include...

- Digital Simulation Framework – 3D earth simulation of assets in real time. Has to stream in gigabits of data per second to run.
- Network Composer – Dynamic network configurations in a drag and drop interface. Changed network configurations from taking months to just several minutes to get set up.

#### **IT Management Associate, 5/2010 to 8/2010, 5/2011 to 8/2011**

Citigroup – Dallas, TX, New York, NY

Part of a small selected set of individuals being groomed for technical management.

- Software Engineering Process Group (SEPG) - analyzing processes and building new solutions, coordinated employee technical support groups for application retirement, project management, tracking issues and risks for application deployments and building financial scenarios for project budget baselines depending on various vendor costs. Required use with MS Excel with macros, MS PowerPoint and MS Project.
- Building and maintaining Microsoft Sharepoint sites to use as skills assessments. Statistical analysis of employee's skills to identify skill gaps and drive training. Business analyst work building maintenance requirement documents and business requirement documents in Word and Excel using Sharepoint as an intermediary. Built reports involving project management using Excel and Word. Projects I worked on as a Business Analyst saving Citi over \$100,000 a month with the projects I worked on. I helped to lead the technology interns to build a final end of summer presentation to the steering committee. We built presentations to discuss our goals and projects we worked on interns during the summer. Manager stated me as having high personal initiative and leadership.

#### **Software Developer and Tester, 5/2009 to 8/2009**

Alcatel-Lucent – Plano, TX

- Worked on the scalability testing of AT&T U-verse. Looked for bugs and tried to find the solutions. Responsibilities. Included server maintenance of servers Sunfire x4100, x4140, IBM and hp servers. Wrote scripts that were to be run every day for graphing server performance and server calls during testing. Wrote scripts to find errors in calls for the failing servers. Wrote tables for executives to take information from server's average temperature, server placement, types of servers and average
- Server performance. Built reports with PowerPoint and excel of testing progress throughout the quarter. Team manager used reports in executive meetings.

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## Education & Credentials

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Bachelor of Science in Computer Science, 2012  
Pennsylvania State University – University Park (Main Campus)

### Professional Certifications

Oracle Certified Associate, Java SE 7 Programmer

Eagle Scout

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## Volunteering

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St. Vincent de Paul – Mathematics Curriculum Volunteer

Boy Scouts of America – Assistant Scout Master

Knights of Columbus

Penn State Student Space Programs Laboratory – Ground System Software Engineer