**EDUCATION**

**LinkedIn Profile**

linkedin.com/in/spencershadley

**University of Texas at Austin, Bachelor of Science in Computer Science** May 2016

* Minor in Theoretical Quantitative Analysis
* Enrolled in Integrated Master Program (Master degree May 2017)

Courses Object Oriented Programming, Modern Web Applications, Algorithms and Complexity, Data Management, Wireless Networks, Compilers, Operating Systems, Computer Architecture, Debugging and Verifying Programs, Longhorn Startup Seminar, Behavioral Ethics: Digital Age, Data Structures

**EXPERIENCE**

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| **eBay / PayPal – Global Operations Architecture Team**, Austin, TX | May 2015 – August 2015 |

Architect Intern

Researched and owned two end-to-end projects without a prescribed structure

Clickable Architecture Project

Converted static images found in PayPal's development wiki pages into live UML diagrams

Featured inline comments, granular permissions and subscription updates to changes

Completed and in production 11 weeks ahead of anticipated completion

Unified Alerts Project

Aggregated emailed alerts asynchronously in real-time to unify disparate alert systems

Single-page web app using the MEAN (mongoDB, Express, AngularJS, Node.js) stack

Implemented using an MVC (model-view-controller) paradigm with RESTful APIs

Featured an SSL connection, live chat, Asynchronous JavaScript and JSON (AJAJ) and responsive design

Incorporated Socket.io, Bootstrap, Chart.js, Dygraphs, Context.io, Almsaeed Studio, jQuery and Bootbox

Performance improved throughout the project (load time decreased 20X by polling asynchronously, caching by 100X)

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| --- | --- |
| **IBM – Software Group**, Austin, TX | May 2014 – August 2014 |

Software Development Intern

Programmed and designed an end-to-end web application to use Reference Data as a Service (replacing several systems)

Written in Java, JavaScript, HTML5 and CSS3

Deployed on BlueMixwith RESTful APIs

Node.js and shell scripts published JSON data from a SQL relational database to a non-relational NoSQL Cloudant database

Presented to Senior Management and Executive Leadership

Created Reference Data Management solution in the cloud

Programmed and designed a web application to access reference data using Java, JavaScript, HTML5 and CSS3

Hosted application on BlueMix

Combined Node.js and shell scripts for server-side scripting

Incorporated non-relational NoSQL database (Cloudant) for the cloud database

Established SSL for secure connection between our server and web service

Worked with Agile Development methodologies (SCRUM)

Made many enhancements to efficiency (such as switching from synchronous scripts to asynchronous scripts for publishing data, improving efficiency by roughly 1000%)

Lead presentations multiple times to Executive Leadership throughout the internship

**Android>Apple (Mobile Application Development Company)** August 2011 - Present

**Founder and CEO**

* Develop applications (one of which Amazon selected as their “Free App of the Day”)
* Lead one to three people during development phases
* Platforms: Android, Blackberry, iOS, Windows, OS X, Flash, PS3, XBOX 360, Wii, Chrome Web Store and the Web
* Published in: Google Play Store, Amazon AppStore, Nook Store, Blackberry, SlideME, Opera, GetJar, Appia Stores, wecreatedit.com, FileDir.com

**Garland Independent School District**, Garland, TX Summer 2012/2013

**Course Author and Advisor**

* Authored new Mobile Application Development Course for the eight high schools of Garland ISD (created and wrote the course; including Presentations, Projects, Tests, Lectures, supplemental Android application, etc.)
  + Advised creation of Game Development, Computer Science I and Computer Science III Courses
  + Created a flashable system image for the 28,000+ computers in the Garland school district for Android Development
  + Updated and adjusted many online courses for high school and middle schools in Garland ISD

**Albertsons Grocery Store** June 2011 – February 2012

**Customer Service Clerk**

* Worked directly with numerous customers each day regarding customer satisfaction issues

**TECHNICAL SKILLS**

* Five years of Programming experience; Three years of Graphic Design experience
* Programming Languages: Java (5 years), XML (3 years), C (1 year), Javascript (1 year), HTML (1 year), JSP (1 year), x86 ATT Assembly (1 year), Lisp (1 year), Dark Basic (1 year), CSS (1 year), JSON (basic knowledge)
* IDEs: Eclipse, Unity, NetBeans, Notepad++, Sublime, BlueJ, JCreator, Dark Basic Compiler
* Other skills: Responsive Design, Agile Development (SCRUM), Development for Android, iOS, Blackberry and websites, Hadoop, MapReduce, Cloudant, Huffman Compression and Decompression, Git, Adobe Photoshop, VMWare Player, GDB, , Adobe Fireworks, LoggerPro, LabQuest, DB2, Relational Database, Database
* Operating Systems: Unix, Linux, Ubuntu, Windows, OS X

**COMMUNITY INVOLVEMENT/LEADERSHIP**

**Organizations/Activities**

* Association for Computing Machinery, Computer Science UIL Team Captain, Calculus Club Secretary, Calculus Bowl, National Honor Society, National Spanish Honor Society, National Junior Honor Society Treasurer, Student Council, Senior Leader at High School for younger students, Basketball, Table Tennis, Football

**Volunteer Experience**

* Judged Computer Science UIL Competition (2014), Relay for Life (2007 and others), South Dallas Food Pantry (June 2011), Keeping Rowlett Beautiful (March 2009 - Present), Church/School Carnivals (October, April for four years plus middle schools October 2007), Vacation Bible School (June 2008)

**HONORS AND AWARDS**

Tens of thousands of application downloads, various prizes from App Contests (cash, phones and tablets), Computer Science II Student of the Year, Two-time Rotary Club award recipient, Distinguished Achievement Graduate, Four-Time Academic Letter recipient, AP Scholar, National Society of High School Scholars, Duke Scholar, Star Scholar

**EVENTS**

* Google IO 2013
* University of Mobile Application Development (uMAD)

PROJECTS AND TECHNICAL SKILLS

**Projects** Developed an Android app to scan and run hand-written code as part of a four person hackathon

Constructed a school district course exception system using Oracle APEX

Wrote a [Pascal Compiler](https://github.com/spencer-shadley/Pascal-Compiler) to convert source Pascal code to executable assembly

Built a [personal portfolio website](http://spencer-shadley.github.io/) using Jekyll (see back of resume for QR code)

Created an operating system including threads, virtual memory and file systems

Deployed a website teaching Android development

Programmed Huffman Compression using Huff Trees

**Languages** Proficient in Java, JavaScript, C++, C, SQL, HTML5, CSS3, JSON, XML, JSP

Familiar with Shell Scripting, x86 Assembly, Lisp

**Software** [Git](https://github.com/spencer-shadley), Travis CI, GoogleTest, Gcov, Doxygen, GDB, Confluence, Valgrind, Oracle SQL Developer, SQL Developer Data Modeler,

Oracle APEX, FireBug, BlueMix, Google App Spot, Apache Tomcat, VMWare Player, Photoshop, IntelliJ, Eclipse, Visual Studio

**Methodologies** Object Oriented Design, Agile Development (SCRUM), REST, Continuous Integration, Unit Testing, Code Coverage,

Functional Programming, Responsive Design, UML, NoSQL, Relational Databases, Graph Databases, Hierarchical Databases