**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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| |  |  | | --- | --- | | **Tableau**, Seattle, WA | September 2016 – Present |   Software Engineer  Move to the Web Team  Scrum Master, Security Champion, Foundational Advisory Board (FAB) member  Advised and mentored the TabX team to ramp up on web development  Mentor for an intern on the team  Built a keyboard shortcut platform  65 new shortcuts used this platform across various teams  Within a few months tens of thousands of shortcuts were initiated by users  Added Cloud Connectors (Google Drive, OneDrive and Dropbox) to the web  Frequently presented for Tableau’s Browser Client Community (keyboard shortcuts, security, service workers, style, etc.)  Wrote scripts to auto-format the codebase to follow our style guidelines  Attended conferences such as CppCon and React Europe, presenting learnings to Tabloids  Found the most bugs in the company  Added a Chrome Extension, Chrome as new Tab, to use Tableau within a Chrome Extension  Adding Service Workers and an App Manifest to the web to make Tableau a PWA  Wrote scripts to publish a code review, apply the changes to another server, start the server and update the review with a link  Interviewed customers on how they use Tableau Server and how the experience could be improved  Interviewed dozens of candidates as a key interviewer for a growing team  Data Move to the Web Team  Partnered with the Data Move to the Web Team to enable critical data related features on the web  Added the ability to connect to 27 key datasources  Unblocked several eight figure contracts  [Number one release highlight for Tableau](https://onlinehelp.tableau.com/current/pro/desktop/en-us/whatsnew_desktop.html#ConnectWebData)  Partnered with Maestro (Tableau Prep) and Connectivity to make this work shareable across all of our products  Enabled editing and improved reconnecting to existing connections on the web  First usage of RSA for encryption in our VizClient code  Helped to add the “Data Source Tab” on the web  Detected unsupported datasources and blocks users from interacting in yet-to-be-built areas  Partnered to build various features: joins, toggle referential integrity, broken datasource detection, etc.  Incorporated “Mini Whack-A-Moles” to increase product quality  Security Champion  Championed security for our team  Foundational Advisory Board (FAB) member  Discussed which technologies and directions Tableau should move in, representing the browser developers  Represented web developers as a FAB member, discussing which technologies to adopt and what Tableau’s infrastructure should be  SCRUM master  Key interviewer  Mentored another team new to web development  Mentored an intern  Added keyboard shortcut platform and shortcuts  Partnered with several teams to add their shortcuts  Added 40 shortcuts myself  25 additional shortcuts added by other teams  Within a few months of release the feature was used tens of thousands of times  Added telemetry to see how people are using the shortcuts  Helped to add Cloud Connectors (DropBox and OneDrive) to the web  Have given several talks to the Browser Client Community  Adding keyboard shortcuts  Security on the web  Style (planned)  Service Workers (planned)  Wrote scripts to auto-format our codebase to follow our style guidelines  Attended CppCon  Attended React Europe  Built published datasources description  Filed the most bugs in the company  Chrome as new tab extension  Added service workers  Added app manifest  Have written automation tests  Created visualization for every command and network request made to make tracking user’s usages and error rates more accurately  Upon publishing a reviewing, take the changes, apply to another server, start the server, update the review with a link  Interviewed a few dozen customers to better understand how they used the web and how to prioritize our feature building  Partnered with Data Move to the Web to enable many data related features  Added the ability to connect to 27 key datasources, generalized so that most new datasources will also require no extra work  Developed feature unblocking 8 figure contracts  #1 release highlight  Partnered with the Maestro (Tableau Prep), Connectivity and Data Move to the Web teams to make my work reusable/shareable across all of our products  Found and filed 624 unique defects in the first two years of working at Tableau  Modified 1,403 files in the first two years of working at Tableau (the most on the team, top ten browser dev modifications in the company)  Kept the design as a plug-and-play model for the Connectivity team to later enable third parties to add their own datasources themselves  Enabled editing a connection  Enabled reconnect  Partnered with the Data Move to the Web Team to add the “Data Source Tab” on the web  Partnered with Data Move to the Web to add encryption using RSA to the web  Added infrastructure to detect if a datasource is unsupported on the web and block the user from getting into bad situations  Pushed the team to adopt higher quality standards, such as using Mini Whack-A-Mole for each feature before release  Detection for a broken datasource, show red-bang when it is broken  Helped to organize teams to for gray areas of ownership  Created vizzes  Anime  Finances  DougScore  Credit Cards  Technologies  React  C#  TypeScript  JavaScript  HTML  CSS  Jasmine  Stylus  Enzyme  C++  Splunk  NewRelic  Perforce  git  GitLab  ReviewBoard  Java   |  |  | | --- | --- | | **Bizler**, Austin, TX | February 2016 – February 2017 |   Co-Founder and Lead Developer  Stealth Startup  Lead developer, technology expert and Scrum Master for a company of five people  Decided which technologies to use for our applications such as Azure, ElasticSearch, Docker, TypeScript, Mocha and JSDoc  Implemented a cross platform RESTful API using MongoDB, Express, AngularJS and Node.js (MEAN)  Designed the mobile and web applications user experience, flows and desired features  **eBay / PayPal – Global Operations Architecture Team**, Austin, TX May 2015 – August 2015 | 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”)
* Led 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)
* React Europe (2018)
* CppCon (2017)

PROJECTS AND TECHNICAL SKILLS

**Projects** [Created visualization of anime data based on scraped information from MyAnimeList.net](https://github.com/spencer-shadley/AnimeExporter)

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

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

**Technologies** Service Workers, React, Redux, Jasmine, Jest, Enzyme, git, perforce, CSS grid

**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