

# Spencer Shadley

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LinkedIn Profile  
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## EDUCATION

### The University of Texas at Austin, Bachelor of Science in Computer Science

May 2016

#### Minor in Mathematics

Computer Science GPA - 3.76 / 4.00

Current Courses    Object Oriented Programming, Data Management, Competitive Programming,  
Debugging and Verifying Programs, Longhorn Startup Seminar, Matrices and Matrix Calculations

Past Courses        Operating Systems, Compilers, Wireless Networks, Computer Architecture, Data Structures

## EXPERIENCE

### Android > Apple Company, Austin, TX

August 2011 – Present

#### Founder and CEO

Develop mobile applications for Android and Blackberry

Published in Google Play Store, Amazon AppStore, Nook Store, Blackberry, SlideME, Opera, GetJar, Appia Stores

### eBay / PayPal – Global Operations Architecture Team, Austin, TX

May 2015 – Present

#### 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 via WebHooks

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

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

Featured an SSL connection, live chat, Asynchronous JavaScript and JSON (AJAX) 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 through asynchronous polling, caching by 100X)

### IBM – Software Group, Austin, TX

May 2014 – August 2014

#### Software Development Intern

Designed and programmed an end-to-end web application to use Reference Data as a Service (replacing existing disparate systems)

Written in Java, JavaScript, HTML5 and CSS3 with RESTful APIs and deployed on BlueMix

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

### Garland Independent School District (GISD), Garland, TX

May 2012 – August 2013

#### Course Author and Advisor

Authored Mobile Application Development course to fill a gap in the STEM curricula

Taught in all high schools of GISD (1,000+ students annually)

Produced a flashable system image for GISD computer network (28,000+ systems)

## PROJECTS AND TECHNICAL SKILLS

### Projects

Created a Pascal Compiler (source code → lexemes → AST → executable assembly)

Wrote an Operating System (included threads, virtual memory and file systems)

Deployed a website to teach Android development (MApP)

Programmed Huffman Compression using trees

Developed an Android app to scan hand-written code and display its output (hackathon with three teammates)

GitHub Profile  
/spencer-shadley



### Languages

Proficient in Java, JavaScript, C, SQL, HTML5, CSS3, JSON, XML

Familiar with C++, Shell Scripting, x86 Assembly, Lisp, Cypher Query Language, Yacc

### 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

### Software

GitHub, GDB, VMWare Player, Travis CI, GoogleTest, Gcov, Doxygen, Confluence, Valgrind, Photoshop, Oracle SQL Developer, SQL Developer Data Modeler, Neo4j, FireBug, BlueMix, Google App Spot, Apache Tomcat, IntelliJ, Eclipse, Visual Studio

## HONORS AND ACHIEVEMENTS

Amazon "Free App of the Day"  
40,000+ Android app downloads

Judged Computer Science UIL competition  
2,500+ unique MApP users with 50,000+ website views