

Spencer Shadley

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EDUCATION

The University of Texas at Austin, B.S. in Computer Science, Minor in Mathematics

May 2016

Computer Science GPA – 3.8 / 4.0

Enrolling in Integrated Master Program (Master in Computer Science May 2017)

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 Apps, Blackberry, SlideME, Opera, GetJar, Appia Stores

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 (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 by polling asynchronously, caching by 100X)

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 BlueMix with 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

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	Wrote a Pascal Compiler (source code → lexemes → AST → executable assembly) Created an Operating System (included threads, virtual memory and file systems) Developed an Android app to scan and run hand-written code (four person hackathon) Deployed a website teaching Android development (MApP) Programmed Huffman Compression using Huff Trees	GitHub Profile github.com /spencer-shadley	
Languages	Proficient in Java, JavaScript, C++, C, SQL, HTML5, CSS3, JSON, XML, JSP Familiar with Shell Scripting, x86 Assembly, Lisp		
Software	GitHub, GDB, Travis CI, GoogleTest, Gcov, Doxygen, 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		

HONORS AND ACHIEVEMENTS

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

Judged Computer Science UIL competition
5,000+ unique MApP users with 100,000+ website views