Spencer Shadley

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EXPERIENCE

Tableau – Stay on the Web Team, Seattle, WA   September 2016 – Present

Principal Software Engineer
- Revamping code ownership for all of Tableau by shifting to an experience model from a component model
- Automated event-driven telemetry data collection, vastly improving data quality and reducing costs by $50 million/year
- Created the Workbook Optimizer platform, micro-service and initial feature-set, the top feature for multiple releases
- Implemented the Tableau protocol for seamless transition between web and desktop, the top marketed feature on release

Lead Software Engineer
- Led cross-team efforts in many orgs to rearchitect Tableau, improving time to interactive performance by 10,000+%
- Transpiling 1.3 million lines of source code for the core Tableau visualization from Saltarelle to TypeScript
- Enabled a 'Connected Experience' between Tableau Server and Tableau Desktop leveraging custom protocols

Senior Software Engineer
- Drove decision to remove Internet Explorer support from all products, conservatively saving $8.3 million per year
- Established new teams in several orgs to improve performance, ensure high quality datasource connectors and more
- Fostered Tableau's web community as the Web Community Driver and through mentorship of teams, engineers and interns

Software Engineer
- Unblocked eight-figure contracts by building a platform to enable 31 key datasource connectors on Tableau Server
- Migrated Tableau to a Progressive Web Application (PWA), results showed a page load time decrease of 36%
- Improved agile best practices as Scrum Master and security best practices as Security Champion

University of Washington, Instructor | Seattle, WA   November 2019 – May 2020
- Taught extended bootcamp on Full Stack Web Development as part the university's Continuing Education Program
- Covered 103 topics including computer science theory, databases, frontend and backend web development
- Exceeded target performance metrics, rated 4.9/5 on instructor knowledge and placed within the top 20% of instructors
- Delivered 15 hours of lecture and 10 office hours each week for the six-month course, reviews at https://bit.ly/2VaBoYE

Bizler, Co-Founder, CTO, Lead Developer, Scrum Master | Austin, TX   February 2016 – February 2017
- Co-founded a company of five people to improve the experience of networking at offsite business conferences
- Architected the apps and chose technologies including Azure, ElasticSearch, Docker, TypeScript and Angular

Android > Apple Company, Founder and CEO | Austin, TX   August 2011 – February 2016
- Developed mobile applications for Android and Blackberry published in various stores
- Generated 100,000+ total downloads and selected as Amazon's "Free App of the Day"

PayPal – Global Operations Architecture Team, Intern | Austin, TX   May 2015 – August 2015
- Converted images into live UML diagrams which was completed and in production 11 weeks early
- Produced single-page MEAN alerts web app using SSL, responsive design and live chat with WebSockets and Socket.io

IBM – InfoSphere Master Data Management, Intern | Austin, TX   May 2014 – August 2014
- Built a BlueMix web application to replace several systems using Reference Data as a Service

Garland Independent School District, Course Author | Garland, TX   May 2012 – August 2013
- Authored Mobile Application Development course to fill a gap in the STEM curricula, taught to 1,000+ students annually

PROJECTS AND LANGUAGES

Projects	
	• Guest-lectured at LWTech on Big Data Data Analytics for the Spring 2019 "Big Data Applications" course
	• Created platform for keyboard shortcuts with W3C accessibility, platform detection, etc. used millions of times
	• Deployed a free website for learning Android development taken by 100,000+ unique students
	• Developed an Android app to scan and run hand-written code as part of a four-person hackathon
	• Built two websites for the City of Austin to display local pool and trail data on a map
	• Created popular data visualizations such as algorithmically personalized anime recommendations
Languages	• Proficient in C#, TypeScript, JavaScript, Java, C++, C, HTML5, CSS
	• Familiar with SQL, Shell Scripting, Python, x86 Assembly
Technologies	• MongoDB, Express, React, Node.js, Redux, Jasmine, Enzyme, Jest, Mocha, Service Workers, git, perforce

EDUCATION

The University of Texas at Austin, B.S. in Computer Science, Minor in Mathematics   2012 – 2016