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JOHN REED SCHRICHTE

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<http://reedaccess.com>

More than 20 years of experience in all phases of the software development lifecycle for startups and Corporate clients including IBM, NASA, JP Morgan Chase, Accenture, and the U.S. Dept. of Homeland Security.

Tool sets:

- n8n, LangGraph, Python AI toolset, OpenCV, TensorFlow, Claude
- Javascript, Python, HTML5/CSS3, NextJS, React, NodeJS, Java
- Neo4j, Postgres, Google Firebase, NoSQL, SQL
- AWS ecosystem including Lambda, DynamoDB, API Gateway. CI/CD, etc.;
- Native and cross-platform mobile development, React Native
- Microservices, REST, XML, GraphQL

Certifications:

AWS Certified Developer Associate, January 2020

[https://www.certmetrics.com/amazon/public/badge.aspx?](https://www.certmetrics.com/amazon/public/badge.aspx?i=2&t=c&d=2020-01-17&ci=AWS01219927)

[i=2&t=c&d=2020-01-17&ci=AWS01219927](https://www.certmetrics.com/amazon/public/badge.aspx?i=2&t=c&d=2020-01-17&ci=AWS01219927)

SUN Certified Java Programmer SUN010028016 January 1998

Education:

Regis College, Denver, Colo. B.S. Computer Systems & Business Admin 1989, Magna Cum Laude

My ongoing research projects include agentic and AI workflows, cloud computing, machine learning, functional programming, big data, NLP, parallel programming, VR/AR, NOSQL databases, and data visualization.

Summary of Experience:

ReedAccess. April 2022 to present

Role: Senior Software Engineer and AI consultant

- Architect and develop software solutions for business and military
- AI workflows and agent-enabled processes
- RAG, MCP, LangChain, LangGraph, vector and graph databases
- Ardupilot ecosystem for fixed-wing drones
- AI-based coding tools such a Claude and OpenCode

Rajant Health Corp. March 2022 to April 2023

Role: Senior Software Engineer

- Architect and develop comprehensive web-based user interface for AI/ML genetics analysis pipeline developed by Radiant Health;
- I was responsible for all coding, testing, and deployment of the user interface;
- I also managed one remote developer;
- The toolset was React, Node, Cockroach DB

Drive Automation January 2019 to February 2022

Role: Senior Software Engineer

Drive Automation provides a variety of services to the automobile retail dealership market.

- Design consumer-facing mobile app for car dealerships and customers.
- Full-stack software development using React Native, Node, AWS
- I was the primary developer for this project.

Sierra Nevada Corp. for NASA (TEKsystems contract) April 2018 to December 2018

Role: Senior Software Engineer

Sierra Nevada Corp. in Louisville, Colo. is spearheading the Dream Chaser reusable spacecraft, currently for cargo resupply to the International Space Station and eventually for crewed missions as well.

- Architect and develop spacecraft key systems engineering support database in SQL;
- Develop complete web and mobile-based application for engineering data maintenance and reporting;
- Analyze, design, and code system for data update coordination and engineer notification and approve/deny authorization;
- Toolset is IOT using ThingWorx, Microsoft SQL Server, React Native, and Angular 6;

Reedaccess.com Dec 2017 to Mar 2018

Role: Software consultant for RageLife Inc. (ragelife.com)

RageLife.com is a social networking app for outdoor activities. My responsibility was to convert an existing iOS app into React Native for both iOS and Android.

- Toolset is React Native, JSX, Google Firebase, Facebook SDK, Redux, and Swift;
- Use existing iOS/Swift app to determine functionality;
- Develop and deploy mobile app using XCode and Android Studio;
- Development and deployment on Google Firebase, including authorization;
- Data creation and retrieval on the Firebase NoSQL DB.

Tuya, Inc. (tuyanow.com) July 2017 to Sept 2017

Role: Angular UI Developer

Tuya is a startup in the same-day express courier domain applying an Uber-style model to the document delivery market. I was an Angular2/4 developer for this marketplace portal. This position was 100% remote with daily Agile standups.

- My primary responsibility was upgrading the current Angular 2 web app to Angular 4;
- Optimize application code for Angular 4 AoT compilation;
- Perform API calls to distributed back-end data sources in JSON format;
- Create reusable UI components for Angular;
- Refactor existing codebase for performance and maintainability;
- Apply Angular and Javascript best practices, Github integration.

Reedaccess.com June 2016 to May 2017

Role: Software consultant for RageLife Inc. (ragelife.com)

RageLife.com is a social networking app for outdoor activities. I was the lead developer for the web portal. This position was 100% remote with continuous team interaction.

- Toolset is Angular 2, Typescript, Google Firebase, reactive programming, Redux, and NodeJS;
- Complete end-to-end development from UI mockups to production-ready deployed system, Github integration;
- Interact with Facebook API's for user authorization and personal data access;
- Development and deployment on Google Firebase, including authorization;
- Data creation and retrieval on the Firebase NoSQL DB;
- Performance optimization, troubleshooting, mentoring newer team members.

Meteostar, Inc. April 2014 to June 2016

Role: senior web/mobile engineer

Meteostar (meteostar.com) provides mission critical weather data services to companies including FedEx air operations and Delta Airlines, NASA Wallops Flight Facility, and the Netherlands national weather service. The web/mobile team is charged with enabling data representation and visualization capabilities for obtaining real-time situational information via the LEADS OnLine system, using has Ruby on the server and a mix of clients including Rails, ExtGS, and mobile devices via cross-platform delivery. I am responsible for full life-cycle development on both server and client side, and I am the senior engineer responsible for mobile development initiatives.

- Full SDLC on Android and iOS: responsive design, Agile methodology, small team interaction;
- Lead various company initiatives including severe weather alerting and insurance industry integration;
- Lead developer on Ruby/Rails and base Javascript, prototype initiatives using Angular 2, Node.js;

- Enabling geo-aware applications using PostGIS with Geoserver 2.8 and Postgres SQL DB;
- Onboard and mentor newer developers;
- Evaluate new technology such as machine learning, NoSQL databases, and functional programming for specific business cases.
- Integrate with sales team, product specialists, upper management, and customers to create innovative and timely solutions to aviation and weather industry challenges.

Reedaccess.com August 2012 to April 2014

Role: independent iOS / Android mobile app developer

- Distributed version 1.1 of LogBuddy OTR driver log app to the Apple iTunes Store and Google Play: www.reedaccess.com/logbuddy.

- Completed a variety of educational & language-related education projects, including deploying an AngularJS/NodeJS/responsive design Twitter Bootstrap application to Heroku, and completing a number of skills upgrade programs including CUDA heterogeneous parallel programming and LISP.

Responsibilities:

- Full SDLC on Android/iPhone, Javascript/HTML5, and Java platforms.
- Continuous interaction (remote and local) with customers to define user needs and UI design.
- Collect and analyze transportation business requirements and regulatory structure.
- Create UI prototype and implement proof of concept.
- Architect and Design mobile application structure, Java and Objective C classes, screen artifacts using Interface Builder and XML, navigation flows, networking, logging and error handling, printing, cloud data storage.
- Implement Android features including remote Services, ContentProviders, BroadcastReceivers, Location, UI layout, threads, notifications, timers, data access using SQLite, and resources.
- Implement iOS features including Core Data, delegates, notifications, GPS location, Segues, UIViewController, UITableViewController, and multitasking.
- Code reverse geolocation, interface with Google Maps using JSON data structures.
- Adapt to mobile phone application lifecycle specifications including sleep, low battery, power saving, call interruption, and phone off conditions.
- Create test data and execute testing conditions.

Environment: Android 4.2, iPhone/iPad, Eclipse, Windows 7, Interface Builder, XCode 5, OS/X 10.9, iOS SDK 5

CRGT Inc., Emerging Tech group, US Govt Systems division Nov 2011 to August 2012

Role: Consultant III

I was a leading technology implementer on mobile systems development projects for US Government clients including the Dept. of Homeland Security. Projects include mobile case management and reporting tools with server-side integration, enabling of field work and team management functions, and high-level security capabilities.

Responsibilities:

- Native and cross-platform mobile development on iOS, Android, and HTML5 (Sencha Touch 2).
- Agile methodology for requirements analysis, design, and implementation.
- UI design and implementation using HTML5, CSS3, and iOS Interface Builder/Storyboards.
- Back-end database design and implementation using SQLite, Core Data, and HTML5 local storage.
- Mobile app instrumentation, security, and device management.
- Port/migrate existing ExtJS code to mobile platform, and app wrapping in PhoneGap for distribution in app store.
- Create UI prototype and implement proof of concept.
- Architect and Design mobile application structure, Java and Objective C classes, screen artifacts using Interface Builder and XML, navigation flows, logging and error handling, printing, data storage, and email integration.
- Implement Android features including Activities, Services, Intents, 2D graphics, UI layout, threads, notifications, timers, data access using SQLite, and resources.
- Implement iOS features including Core Data, delegates, notifications, GPS location, Navigation Controller, UIViewController, and multitasking.
- Extensive customer interaction during all phases of project.
- Coordinate project work with offshore team in VietNam..
- Environment: iOS 5.1, Android 3.2, OSX 10.7, Objective C, Java, Sencha Touch 2, Javascript, SQLite, Core Data, HTML5, CSS3, JSON

Accenture Corp. at JP Morgan Chase Bank Aug 2010 to July 2011

Role: Systems Analyst

I was a key technical participant on a project involving real-time delivery of mission critical and highly confidential financial and accounting data (Balance Sheet, Income Statement, variance reports, peer ranking, etc.) to 5000+ retail branches in the Chase US banking network, improving branch operations and performance and enhancing customer service.

Responsibilities:

- Key participant in technology proof-of-concept for Java and JPMC's Open Source-based FAST.
- Full SDLC from analysis thru development and testing of secure web-based Java 1.6 application.
- Database design and coding of back end data access using MyBatis ORM with DB2.

- Analysis, design, and coding of middle tier using Spring 3 MVC, Security, SWF on Tomcat.
- Design and coding of web tier using javascript, HTML, CSS, YUI library, JSON, Ajax.
- Create application specifications for technical architecture.
- Coordinate project work and regular meetings with client's offshore team in Hyderabad.
- Create and execute JUnit test cases and run performance tests.
- Extensive Open Source software integration, debugging, and troubleshooting.
- Continuous interaction with client staff and business users in analysis and design phases.

Environment: Java 1.6, javascript, Spring 3, YUI, JSON, HTML, CSS, DB2, MyBatis, Tomcat, Eclipse 3.6, JUnit, Maven, Agile, Windows 7, Linux