**Robert R. Mayer, Jr.**

**Innovative, adaptable hands-on technology leader, architect, and developer experienced in all aspects of full stack, end-to-end product creation from concept definition through architecture and development to delivery in support of business goals. BSEE and MBA degrees. Creative problem solver with the ability to quickly learn and adapt tools and technologies to complete the project. Open to contract and full-time opportunities.**

**Skills**

* Software architecture
* Software design
* Software development
* Object Oriented Design
* Technology consultant
* Project management
* Strategic thinking
* Full stack applications
* Communication
* Team leadership
* Product definition
* Mentoring
* Agile, SCRUM, SDLC
* Creative solutions

**Technologies**

* Java
* REST services (JAX-RS, .Net)
* SOAP services (JAX-WS)
* Microservices
* Android in Java and Kotlin
* iOS in Objective C and Swift
* MVVM, MVC, MVP
* C#/.Net
* Python
* HTML5, CSS3. Javascript, Typescript
* Linux
* MS Office
* SQL Database (Postgres, MySQL, MS SQL Server, JDBC, .Net Entity Framework)
* GIS Database (PostGIS)
* Apache HTTPD
* JQuery
* Glassfish/Payara/Java EE, Tomcat, Spring
* UML
* AWS Essentials Cert

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**Skill Summary**

* **Skilled Software Architect, Developer, Consultant** – Created new technical end-to-end solutions by architecting, designing, and developing scalable, and reliable enterprise class software solutions for mobile apps, web apps, microservices, and web services in a variety of technologies.
* **Expert Mobile App Developer** – Designed and developed Android (Java, Kotlin) and iOS (Objective-C, Swift) mobile apps. Created new apps and enhanced the features, functions, and security of existing apps. Mentored junior developers. Advanced features such as GIS/maps, geofences, and face recognition.
* **Experienced Service Developer** – Designed service interfaces and implementations in Java and C#/.Net to support mobile and web applications. Services handled database interactions including GIS data. Design and implementation included security considerations.
* **Excellent Communication Skills** –Expanded project teams and customer knowledge on a variety of topics by writing and delivering highly effective, creative presentations clearly communicating complex technical, product, and business information to a variety of audience types and sizes.
* **Flexible and Adaptable** – Comfortable in either team lead or individual contributor role. Easily adapts to new technologies, libraries, industries, and organizational polices and procedures including CI/CD.

**Professional Experience**

**My OWL Tech LLC, Colorado Springs, CO, 12/2021 to Present**

**Owner/Founder, Business Product Strategy, Lead Architect, Lead Mobile Developer, Lead Service Developer**

Formed company to define, implement, and deliver consulting services and technology products. Learn new technologies and techniques for use in current and future projects. Balanced time between full-time work and internal projects with full-time work being the priority.

* In support of product concept, performed primary and secondary market research on target and potential markets. Identified market potential, target users, target businesses, and risks for new product. Developed business case to support product concept. Developed end-to-end architecture for potential user volume.
* Developed services downloading and persisting weather forecast data from aviation and NDFD services in GIS database. Services handle millions to hundreds of millions of data points per period of 5 minutes to 1 hour for different data sets with creative database structure and data model to rapidly insert and retrieve data while avoiding limitations of the database.
* Created data analytics to evaluate forecast data for regions and points along with available observations to determine forecast effectiveness and variations across an area. Analysis data to be used in future products for enhanced user information and decision making.
* Built company revenue and enhanced Android app security with consulting contract to review 3rd party Android SDKs and Play Store Apps for industry leading Android and Security companies. Provided feedback and solutions on issues and risks limiting team effectiveness and productivity.
* As Tech Lead and Sr. Mobile Engineer, enhanced the features, functions, and security in healthcare, travel, and other industries. Implemented geofences, advanced features and recommendations and technical capabilities and limitations of location capabilities. Worked with on shore and offshore teams.
* As a Senior Manager and technology consultant on a project for major consulting company, assisted global library sharing organization with enterprise software focusing on managing complex time zone issues. Provided expert input on requirements and technical guidance on implementation in design, web-based UI, services, and database.
* Technologies: Clean Architecture, iOS, Swift, Objective-C, iPhone/iPad, Java, Android SDK, Kotlin, MVVM, MVP, MVC, Jetpack Compose, Responsive Web Design, HTML5, CSS3, Javascript, REST and microservices, SQL, JDBC, Linux, Mac OSX, PostgreSQL with PostGIS, Windows, Spring framework, Tomcat, Payara, Apache HTTPD, IIS, Agile Processes, UML, Python, CocoaPods, Auth0

**Xpanxion, CO, 2/2021 to 12/2021**

**Lead Android Developer**

* Development and maintenance of FEPBlue Android app for Blue Cross Blue Shield Association (BCBSA) using SCRUM. Developed new features in Java, identified and corrected code issues, and coordinated with other teams.
* Guided team in implementation of user identification library for Android. Evaluated technology and fit with business goals. Implemented initial solutions with library and identified significant issues,
* Technologies: Android SDK. Java, Kotlin, MVVM, RxJava, Retrofit2, OkHttp, Prove SDK.

**Adaptive Systems, LLC, Colorado Springs, CO, 1/2011 to 11/21**

**CTO, Co-Founder/Owner, Lead Architect, Lead Mobile/Service Developer**

Define, architect, design, and develop end-to-end data collection, analysis, learning, and visualization applications with a focus on the aviation industries. Learn new technologies and techniques for use in current and future projects. Balanced time between full-time work and internal project with full-time work being the priority.

* Enhanced aviation decision making with a solution to evaluate weather forecast data, aircraft load, and aircraft information to identify potentially dangerous situations and conditions. Completed multiple Phase I SBIRs.
* Extended flight services organization capabilities with iPhone/iPad mobile app. Developed business case, designed and developed dynamic, highly interactive mobile app. Worked with initial customer to develop product features and requirements.
* Reduced user decision making time with popular aviation application providing visualization and interpretation of aviation weather observations and forecasts. Created product business case and architected enterprise class, GIS enabled web (SOAP and REST mircroservices) and mobile apps.
* Enhanced project management dashboard for a DoD contractor. Architected, designed, and developed service/microservice solutions using .Net/C# technologies. Developed database and data model design to support services and end user requirements.
* Technologies: iOS & Objective-C, iPhone/iPad, Java, Android SDK, Kotlin, .Net Services, Responsive Web Design, HTML5, CSS3, Javascript, REST Services (JAX-RS), microservices, JQuery, SQL, JDBC, Ubuntu Linux, Apple OSX, PostgreSQL with PostGIS, Windows, Glassfish, Tomcat, Apache HTTPD, IIS, Agile Processes, UML, Sparx Enterprise Architect, Python

**Cherokee Nation Business, CO, 6/2020 to 10/2020**

**Mobile Developer and End-to-end Architect**

* Short term project to build Android mobile app for data collection for forest service. Designed options for end-to-end architecture in a highly regulated industry dealing with significant security requirements for mobile app and backend services. Presented solution options to customer to determine best course.
* Developed software to manage data for product. Converted complex data from multiple sources into JSON and embedded in the mobile app.
* Technologies: Android SDK. Java. Enterprise Architecture. REST Services.

**Acoustic (Formerly IBM), Colorado Springs, CO, 2/2015 to 6/2020**

**Product Consultant**

Product consultant assisting customers to implement mobile push notifications (Acoustic Campaign), web site and mobile analytics (Acoustic Experience Analytics), and web site personalization (Acoustic Personalization). Mobile app expert mentoring product consultants.

* Accelerated many customer product implementations across multiple geographies. Assisted in product usage, product integration architecture, mobile app development, and API usage.
* Enabled full consulting team to deliver mobile oriented products through training and as expert technical resource in consulting organization.
* Shortened implementation time for customers with architecture, design, service implementation, and mobile app recommendations for features extending product features and advanced customer use cases. Developed mobile app and service example code as a guide to customers.
* Guided customers in the implementation of Acoustic Experience Analytics for web sites and mobile apps. Assisted in SDK implementation and configuration to collect data on end user behaviors while maintaining data security.
* Enhanced and adapted product consulting collateral and processes used to guide customers in the design and implementation of mobile push notifications. Trained team members in other geographies in use of collateral and product features.
* Technologies: Acoustic Campaign, Acoustic Experience Analytics, Acoustic Personalization, Objective-C, Swift, iOS, Java, Android, Kotlin, Javascript, Xamarin, React Native, OAuth

**Completely Verified, LLC, Denver, CO, 6/2014 to 10/2014**

**CTO, Lead Architect, Lead Mobile Developer, Lead Project Manager**

Architected solution, designed biometric software, built team, and implemented processes to deliver enterprise class, all inclusive, automated solutions combining biometrically confirmed user identity on Android and iPhone/iPad smartphones. Company was shut down due to investor conflict.

* Positioned the company for initial product delivery. Created product and technology strategy, requirements, and architecture for products targeted at multiple market verticals. Products incorporated face verification/recognition in Android & iPhone/iPad mobile apps along with REST services and web apps. Modular architecture enabled the team to build multiple products based on common functions.
* Supported initial product development. Developed biometric face verification/recognition mobile apps and libraries for both Android and iPhone/iPad. Evaluated performance and capabilities. Apps and libraries also included geofence monitoring to generate alerts when a user enters/leaves area.
* Built small, high performance development team who quickly built out services, mobile apps, and web apps that positioned the company for early delivery of initial products. Mentored junior developers.
* Technologies: Agile Development Process, iOS & Objective-C, iPhone/iPad, Java, Android SDK, Android NDK, REST Services, SQL, Ubuntu, Apple OSX, Windows, Tomcat, Microsoft Office

**Seros, Inc. (Aviture, Inc.), Colorado Springs, CO, 2/2010 to 4/2013**

**Director Mobile Applications, Sr. SOA Architect, Lead Mobile Developer, Project Manager**

Consultant for enterprise architecture and technology including SOA, enterprise security, and enterprise mobile app services to fortune 500 companies. Responsible for defining enterprise mobile framework, SOA architectures, design pattern, technologies, and related processes.

* Positioned two multibillion-dollar insurance companies for success in SOA with architectural guidance integrating ESB, security appliances, mobile apps, and integration servers. Developed service design patterns, security patterns, SOA governance processes, and tools for automation of runtime governance.
* Enhanced enterprise SOA architecture and design including strategy for web and mobile application integration and enterprise security. Developed Android mobile app and library for enterprise OAuth based security as model for enterprise mobile apps. Trained customer teams on SOA service governance, development processes, service security, architecture, project management, development, and service testing.
* Extended revenue and consulting opportunities with strategy, conceptual prototypes, and technology frameworks for mobile apps including enterprise apps and security. Developed mobile consulting practice messaging and presentations for business development and presented value proposition to potential customers.
* Technologies: Agile Project Management, iOS & Objective-C, iPhone/iPad, Java, Android SDK, Responsive Web Design, HTML5, CSS3, Javascript, REST Services (JAX-RS), SOAP Services (JAX-WS), WSDL, JQuery, C#, Microsoft .Net, SQL, JDBC, ORM/JPA, Fedora, Ubuntu, Apple OSX, MySQL, Microsoft SQL Server, Windows, Websphere App Server, Websphere ESB, Websphere Process Server, UML architecture, Microsoft Office, Sparx Enterprise Architect, Apache HTTPD, Single Sign On Security (OAuth)

# Education

* M.B.A, LeTourneau University (GPA 4.0)
* B.S. Electrical Engineering, University of Texas at Austin (GPA 3.12)