

SEAN KANG

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QUALIFICATIONS

Mobile Architect for Cubic Transportation - automated payment for public transit Engineering Director for Medical Informatic System.

Architect Senior Director for Samsung AnyTest for Samsung Electronics.

Samsung Electronics Technical Representative for the LIMO Foundation Partners

20+ years with Java and C++/C on Windows and Linux (CENTOS, Ubuntu)

15+ years web development with SOAP Web Services, RESTful

10+ years as team lead-architect with Agile-Scrum style development

US Citizen, US Government Clearances

Computer Science Bachelor of Science, Purdue University

Helped HP to save \$15mil to deploy Watson Web Configurator

Helped Microsoft build their flagship product Office as Software Design Engineer

Android/iOS Programming with Kotlin/Java, Swift/Objective-C

Personal GIT <https://github.com/sk92129>

WORK EXPERIENCE

Cubic Transportation, San Diego, CA

2017-Present

Sr. Mobile Architect, Traveler Mobile Application

Design, develop and deploy react-native mobile application solutions for transit fare collection and tickets. Build and deploy mobile solutions for the iOS and Android platform for traveler and retail POS. Incorporated credit card payment with PayEezy and mobile payment such as Apple Pay and Google Pay. Incorporating other native capabilities: SafetyNet, Social Network SSO, etc.

Design and build the back-office support for mobile solutions. Integrating CRM systems such as Salesforce into a transit solution for WMATA and Los Angeles. Back office services are written primarily in Java Springboot with a React Native solution for the mobile platform.

Technology Stack: React-native, XCode, Android Studio, WebStorm, Docker, Flutter-Dart, Objective-C, Java, Springboot, Kotlin, Python, Swift

Apple app for WMATA <https://apps.apple.com/us/app/smartrip/id1516539463> (Cubic Transportation first app)

Apple app for LA Metro <https://apps.apple.com/us/app/tap-la/id1505839730>

Google Android app for Chicago Ventra <https://play.google.com/store/apps/details?id=com.ventrachicago.riderapp>

Apple app for Chicago Ventra <https://apps.apple.com/us/app/ventra/id1005645256>

Meliorix, San Diego, CA

2015-2017

Director of SW Engineering

Deliver the first Clinical Decision Support (CDS) system for medical informatics based on Java Drools. Deliver the first JBOSS business process management system to a 10+ hospital chain. Managed the design to deployment of clinical support application based on business rules service platform. Assist in the implementation and debugging of CDS. Deploy and manage operations into a HIPAA compliant cloud platform. Improved the software quality by engineering the quality from the inside out.

Technology Stack: Java, RESTful Web Services, MySQL, SpringFramework, Hibernate, JBPM, Drools, ElasticSearch, AWS EC2, JavaScript, RabbitMQ, HornetQ, JMS, Camel, Kibana, Springboot

ASEG, San Diego, CA

2010-2015

Principal Engineer

Contribute as a principal software engineer directly into GIS or government intelligent agency customer projects. Design and building solutions with a combination of web or mobile front end with a Java or C++ server application. Added the terrain elevation look up into the BAE Systems GXP Xplorer.

2020-11-02

Design and build in-house solutions: DOD contract web parsing with Stanford NLP and google map overlays. 3D terrain viewer based on OpenSceneGraph (OSG).

Technology Stack: Java, GCC on RedHat, GWT, JavaFX, RichFaces, AngularJS, BackboneJS, JQuery, SpringFramework, Jersey JSON RESTful services, iOS, Android, JQuery-YUI, Liferay Tomcat, ServiceMix ESB, Apache JackRabbit, Glassfish, OpenLayer, QOS-SLA measurement, LDAP with ActiveDirectory, PDFClown, Qpid, ActiveMQ, CoachDB, Jena-RDF, Maven, Ant, Enterprise Architect, JIRA, Jenkins

Samsung SDS, South Korea

2007 – 2009

Architect-Software Team Leader, Senior Director

Recruited by Samsung to design and build their own Product Lifecycle Management tools named Samsung AnyTest. Anytest was deployed in Samsung China, Poland and Seoul. Build the team from ground up from Seoul, Bangalore, and Chennai.

Represented Samsung Electronics and Samsung SDS within the LIMO foundation which was linux based smartphone operating system. LIMO eventually lost its funding after Google Android was announced.

Technology Stack: Apache Axis2, Hibernate, MySQL, Visual Studio C++

Lockheed Martin, San Diego, CA

2004 – 2007

Senior Software Engineer (Technical Field Engineer)

From the San Jose office, worked as the CBIS principal architect which is a combat-enabled workstation.

Transferred to San Diego Orincon in 2005.

Design and develop RedHat C++ and Java JINI for the messaging framework for the US Army FCS (Future Combat System). Helped in the FCS field exercises at White Sands Missile Range.

Technology Stack: RedHat Linux, C++, Java, JINI, OpenMap, CruiseControl, XAML

EDS & CO., INC, Seaside, CA

2002 – 2004

Sr. Software Engineer

Design and software development at the Dept of Defense at the DMDC Seaside CA location to build the Smartcard (CAC) verification system which is called CVS – Contractor Verification System.

Technology Stack: J2EE, Oracle Orion App Server, Struts, Entity and Session EJB, JSP, Oracle 9i RDBMS

KA Corp, San Jose, CA

1997 – 2002

Sr. Software Engineer, Consultant

Worked as independent software consultant and programming for various dot com companies.

Clients: Dialpad, Wine.com, XEROX Inxight, K2

Technology Stack: PHP, GCC on BSD, ASP, JSP, Delphi, Visual Basic, Visual C++, ODBC MS SQL Server

Hewlett Packard (ESG Consulting), Cupertino, CA

1998 – 1999

Sr. Software Engineer

Helped HP to re-use a \$15mil legacy system into a multi-user web solution.

Help convert a desktop Visual Basic single user desktop application into a COM server. Build a COM-CORBA bridge to communicate between the web java servlet and the VB COM server.

Technology Stack: COM, Iona CORBA, Visual Basic, Java Servlets

Pointcast, San Jose, CA

1996 – 1997

Sr. Software Engineer

Develop the ActiveX GIF animation editor tool. This animation tool was used by their advertisers to sell ad space.

Technology Stack: Microsoft Visual C++, COM, ActiveX

Microsoft Corp, Cupertino, CA

1994 – 1996

Software Design Engineer

-Develop the OfficeArt user interfaces for Office 97 with Visual C++ on Windows NT, Windows 95 and Mac OS (PowerPC)

2020-11-02

Aion, Palo Alto, CA <i>Software Engineer</i> -Write with Glockenspiel C++ to develop the runtime engine and editor for Aion Development System (ADS) on Windows 95 and IBM OS/2 PM.	1991 – 1994
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IBM, San Jose, CA <i>Software Engineer</i> -Add features to IBM IMS database system, using System 370 assembly language.	1989 – 1991
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EDUCATION

CARNEGIE MELLON UNIVERSITY , Pittsburgh, PA Master of Science, Business Intelligence Data Analytics (Distance Learning)	2017-Present
STANFORD UNIVERSITY , Stanford, CA Management Science and Engineering (SCPD) – Non-Degree	2005 – 2005
PURDUE UNIVERSITY , West Lafayette, IN Bachelor of Science in Computer Science, GPA: 5.4/6.0	1986 – 1989