Karl M. Davis

Software Engineer

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Experience

2009–present **Team Lead, Advisory Software Engineer**, *IBM*, Tucson, AZ.

Senior member of the COPLINK product services engineering team. Leading the development of several critical ETL applications, as well as various internal business systems, custom applications, and customizations of existing products.

Specific responsibilities and accomplishments:
- Lead engineer on the rewrite of two legacy Java applications: XML Checker and Lookups Updater.
- Oversee several other engineers' work on many other applications, such as: the Source Extraction Engine and DB Checker.
- Produce statements of work, specifications, and oversee the implementation of contracted custom development, such as: GUI customizations and a mobile field interview application.
- Coordinate with other leads, project managers, and managers on the development and delivery of work beyond my team.
- Oversee the "bluewashing" of various applications after the IBM acquisition: bringing them into compliance with IBM engineering and legal guidelines.
- Proposed and implemented a number of best practices: unit testing, continuous integration, code reviews, and configuration management.

2006–2009 **Principal Software Engineer**, *Ridgetop Group*, Tucson, AZ.

Managerial and technical lead for a small team of three other software engineers.

Specific responsibilities and accomplishments:
- Project lead for a $1.2M Navy research & development grant, to develop a software approach to reducing IT maintenance costs.
- Wrote SNMP and WMI clients in Java that were used to remotely pull and analyze IT systems' current state.
- Wrote a workstation data collection application and created a prototype sensor implementation for it (a handheld GPS unit).
- Built and managed the company's IT infrastructure up until the hiring of a full time administrator.
- Wrote numerous government R&D proposals, at least three of which were awarded grants.

2005–2006 **Software Engineer, Contractor**, *Vision7 Software*, Tucson, AZ.

Software engineer on over a dozen different projects. Programming languages and frameworks used included: C#, ASP.NET, ASP, VBScript, HTML, and CSS.

2002–2005 **Support Systems Analyst**, *University of Arizona*, Tucson, AZ.

Primary responsibilities were as a helpdesk technician. Also developed an account management tool using C# and ASP.NET that interacted with Microsoft Active Directory.

Languages

Java	**Expert**	*Java 1.4+: Wicket, Swing, Android, JDO, Spring JDBC, Guice, JUnit, and many other frameworks.*
.NET	**Former Expert**	*.NET 1.0 & 2.0: C#, Visual Basic, ASP.NET, and Windows Forms.*
Others	**Novice**	*Have occassionally hacked on Ruby, Python, JavaScript, and PHP projects.*

Technical Proficiencies

IDEs	Eclipse, NetBeans, and Visual Studio 2003 & 2005.
Dev IT	Git, Mercurial, SVN, Maven 2, Hudson/Jenkins, Nexus, Eclipse RCP, and other tools.
Systems IT	Extensive experience in the design and management of mixed-environment computing systems. Setup and maintained Windows servers using Active Directory, Group Policy, RRAS, DNS, DFS, and IIS. Have also setup and maintained Linux servers running DNS, Kerberos, LDAP, AFS, Zimbra, and Apache. Have used Puppet, a configuration management tool, to create and maintain systems.

Personal Coding Projects

-Developing an Android application to sync contact data with a Zimbra server.

-Developed a CMS in Java using Wicket & JDO.

Interests

Outdoors	Canoeing and hiking.
Indoors	Small coding projects, reading, tinkering with IT, and playing the occasional video game.

References

Available upon request.