Scott Stephens

Senior Software Engineer

Senior Software Engineer with more than 30 years of experience in a broad range of disciplines. Started out working my way up to software engineer inside a major database software company, (Oracle), producing several commercial products. Leader for technology standards at the company. Helped set up software business and development environments in several countries. Was managing director of a small GIS, database and webserver software provider. Built software middleware for tablets controlling wifi, bluetooth hardware communication and keyboard input widget. Managed ETL jobs and reports for marketing at a bank.

Contact

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Work History

2019-2020 **Python Developer**

Hirevergence LLC
(Contracted with Optiv for project at Starbucks HQ).

- Migrated Python Django REST API to Flask, Marshmallow and SQLAlchemy, using OpenAPI 3.0-driven API specification
- Normalized and optimized database design, moving from SQLite to MySQL database.
- Integrated with OpenID Connect company authentication
- Built up UI using ReactJS components, Redux and Axios client calls to REST API backend.
- Built NGINX-integrated authentication layer to fully protect application..

2013-2020 **Sr Software Engineer II**

Bank Of The West
- Managed and supported bank's production Customer Management Engine, (marketing lead generation).
- Managed and supported bank's Contact Lead Engine, (marketing lead distribution processing).
- Developed and deployed bank's first ATM advertising targeting system.
  Tuned and debugged daily batch delivery.
- Managed SAP Business Object Designer daily production ETL job for all bank branches, handling 192 transformations.

- Managed group deployment schedule and standards.
- Created a "proof-of-concept" project to migrate lead generation and distribution system to a Hadoop architecture, using PySpark, PIG and pydoop to handle processing of daily communications.

2011-2013 Sr. Software Engineer

Ricoh EWS

- Managed and developed middleware services between eWriter/eQuill tablet and Linux kernel and system services: power management, audio and network (3G and Wifi), and external device interface for external Bluetooth printers, barcode scanners and keyboard.
- Developed several IPC layers using custom UNIX socket-based IPC, XMLRPC and ZeroMQ. Optimized architecture to minimize race conditions and multi-threaded contention.
- Developed "configuration manager" which maintains system-wide persistent data settings for services, rather than flat configuration files.
- Redesigned and developed build-based soft-keyboard layout which could generate around 93 different keyboard layouts and allow for different styles and designs from SVG templates.
- During limited availability release, worked with management in defining achievable goals and efficient fix and release schedules.

2007-2010 Managing Director, Tech Lead

GISCOM Sdn Bhd

- Managed staff of 4 in company projects
- Prepared and gave presentations with product prototypes. Demonstrated for private companies, government ministries and Sultan of Brunei.
- Consulted for Brunei Survey Department, creating specification for detailed maps of Brunei from newly produced aerial photos. Recommended subset of CityGML which could be uploaded into geospatial Oracle database.

- Developed "TeleGIS", web and mobile platform-enabled GIS application. Won first place 2009 BICTA, (Brunei ICT Award), and was Brunei's entry for APICTA, (Asia-Pacific ICT Award) in Melbourne, Australia
- Managed and developed roadmap of Brunei and website access with address search services, (geolocation), for Brunei National Disaster Management Centre.
- Developed and implemented Brunei Telkom's "Tracker" web GPS tracking application on top of Google Maps.
- Developed and implemented Brunei Telkom's "iMaps" web mapping application and telephone subscriber lookup service for emergency services.
- Provided database and application software application support for "Designs" project NetMinister telecommunication "outside-plant" GIS and maintenance system.
- Provided DBA support for TelBru's databases.
- Gave presentation on Oracle Spatial to Brunei Institute of Geomatics conference.
- Migrated old Wang VS system to equivalent Oracle database with web-enabled reporting system.
- Consulted on future projects with Brunei Telkom and other ministries and private companies. Developed several local websites.

1997-2003 **Principal Technical Analyst**

Oracle Corp.
- Maintained dynamic applications on corporate website.
- Developed "Parallel Portlet" architecture for Oracle Portal.
- Implemented Java Servlet SDK and C API to Java SDK for WebDB listener.
- Created installation programs that run entirely inside database.
- Created utilities for internationalization, code generation and product installation for Oracle WebDB product.

1996-1997 Senior Engineer

NetGravity, Inc.
- Created first ASP and ActiveX implementation of AdClient.
- Created first Windows NT installation software of AdServer.

1989-1996 Staff Engineer

Oracle Corp.
- Off-hour, 24-hour worldwide support for all Oracle products and international customers and critical database situations.
- Assisted in development of original online support system.
- Completed first online "Oracle Store" application released into production.
- Created database driven bulletin-board system for Oracle partner's website, based on NTP protocol.
- Created "Oracle Book to HTML Converter" product to help users migrate Oracle Book documents to websites, or run as web backend.
- Completed "Oracle Book SGML Editor" product.
- Created "Oracle SupportNotes CD-ROM", adding millions in revenues to Oracle Support group.
- Helped Oracle Documentation group to port all Oracle documentation to electronic format.

1991-1992 Post-Sales Analyst

Oracle Systems S.E.A.
- Supported customers in Singapore, occasionally acted as consultant and pre-sales.
- Taught classes on most database products for Oracle Education in Singapore.

Education

1987   Bachelor of Science: Computer Information Science

Sonoma State University - Rohnert Park, CA