Kiriakos Georgiou

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Academic History

Rochester Institute of Technology, 1997; M.S., Computer Science.
City College, 1992; B.S., Computer Science.

Core Competencies

PostgreSQL	expert in PostgreSQL programming and administration, replication, backups
AWS	RDS, EC2, S3, supporting PostgreSQL cloud infrastructure
PL/pgSQL	extensive database programming with PL/pgSQL
PostGIS	programmed geospatial applications with PostGIS
SQL	expert with SQL and associated PostgreSQL extensions
data modeling	proficient with relational and dimensional modeling for OLTP and DSS applications
Unix	avid user, administrator and developer on Linux and FreeBSD for over 25 years
ruby & perl	extensive experience with both languages for database programming, ETL, and web development

Other Skills

GCP	Google Cloud Platform, supporting PostgreSQL cloud infrastructure
Heroku	Heroku SQL Database service supporting PostgreSQL cloud infrastructure
Liquibase	for managing and applying database changes in a CI/CD environment
ruby on rails	for web application development
HTML, CSS, jQuery	good understanding of core web technologies
agile process	proficient with the agile workflow using git, Bitbucket, Jira and Confluence
PowerDesigner	for data modeling and data dictionaries

Employment Record

07/2019—

Align Technology Inc.
Senior Cloud DBA, supporting 24x7 global database operations on Heroku and AWS. Programming with PostgreSQL using PL/pgSQL, ruby, on Linux. Agile development process with git, Bitbucket, Jira, and Confluence.

12/2018–05/2019

SmartEtailing Inc.
Data Architect, designed new databases and setup PostgreSQL infrastructure. Lead the effort of redesigning legacy databases on MS-SQL Server to databases on PostgreSQL to support the move to a microservice based architecture. Implemented ETL for data migrations and Elasticsearch indices. Setup PostgreSQL infrastructure on Google Cloud Platform provisioned Linux instances, in a high availability configuration (streaming replication), with automated backups (Barman), connection pooling (PgBouncer), and database source control (Liquibase). Programming with PostgreSQL using PL/pgSQL, ruby, and Ansible on Linux. Agile development process with git, Bitbucket, Jira, and Confluence.

Pace Computer Solutions Inc.

PostgreSQL Subject Matter Expert, at Leidos Inc., developed U.S. Social Security Administration's PostgreSQL relational database service. Led the PostgreSQL team, authored core PostgreSQL infrastructure to facilitate provisioning, backups, point-in-time recovery, and monitoring, on Amazon EC2 provisioned Linux instances with streaming replication and Amazon S3 archival of backups and transaction logs. Used AWS CloudFormation and Ansible to provision and manage PostgreSQL AWS RDS instances. Database administration and programming with PostgreSQL using perl, ruby, bash, and Ansible on Linux. Agile development process with git, Bitbucket, Jira, and Confluence.

CGH Technologies Inc.

Senior Data Architect for the Federal Aviation Administration. Designed, developed and supported PostgreSQL databases backing state-of-the-art U.S. airspace applications. DevOps role: involved with development, as well as 24x7 production support. Setup PostgreSQL with automated backups, automated point-in-time recovery, and streaming replication. Author of backend processes for calculating and delivering critical airspace data feeds to production and development databases. Data modeling, database administration and programming with PostgreSQL and PostGIS using PL/pgSQL, ruby and ruby on rails on Solaris and Linux. Web services programming with SOAP and ruby. Agile development process with git, Bitbucket, Jira, and Confluence.

Acquisition Technologies Inc.

Senior Database Engineer at Raytheon. Managed PostgreSQL databases that ingest data from NASA's earth orbiting satellites. Authored core PostgreSQL infrastructure: automatic generation of database patches from source control, an advanced ruby PostgreSQL API, the automated backup system, and a good portion of application logic residing in databases as functions. Key contributor to the development of a migration plan for transitioning from Sybase ASE to PostgreSQL, and executing the plan at NASA's data centers. Central role in the migration of a large Sybase ASE codebase of stored procedures to PostgreSQL functions. Mentored and guided development teams with respect to anything database related. Developed and maintained a web geospatial application that gives users the ability to "subscribe" to earth data of interest. Data modeling, database administration and programming with Sybase ASE and PostgreSQL using T-SQL, PL/pgSQL, perl, and ruby on Linux and Solaris.

Technology Professionals Exchange Inc.

Project Lead at AOL Inc., Quality Engineering Team. Developed data marts to support analysis of product "phone-home" data. Performed system analysis, designed and deployed dimensional data marts onto Microsoft SQL Server. Implemented the ETL processes for staging, cleaning, and loading the data feeds onto the data marts. Programming with perl on Microsoft Windows.

PTFS Inc.

Project Lead, at the U.S. Naval Research Laboratory. Lead the development of the web based system that NRL scientists use to search and browse articles from thousands of scientific journals from all the major publishers. Built the development team and provided mentoring and technical direction. Received technical excellence award. The system received numerous awards and high praise from end-users. Various U.S. government organizations (DOD, NASA, NIST, etc.) pay for access to it. Data modeling, database programming and administration with Sybase ASE, application development with perl and C on Solaris.

Rochester Institute of Technology Research Corporation

Computer Scientist, member of the 2000 U.S. Census Data Capture System team. Assisted the U.S. Census Bureau with defining requirements for the 2000 U.S. Census Data Capture System, and facilitated the publication of a high quality RFP. Invited by the winning contractor, Lockheed Martin, to join their development team, responsible for the implementation of the Optical Mark Recognition subsystem for the 2000 Census. C++ and perl programming on Microsoft Windows and Unix.

Intracom S.A., Athens Greece

Summer internship; programmer, member of the development team that implemented the command editor for the Ericsson AXE-10 digital telephone exchange on behalf of the Hellenic Telecommunications Organization S.A. Programming in C on DOS.