

Backend Engineer Backend Engineer Backend Engineer Los Angeles, CA Strong skills in SQL, Java, JavaScript and Python. At DAI Global I work on product and engineering for of our product lines Authorized to work in the US for any employer Work Experience Backend Engineer Wurrly - Los Angeles, CA March 2019 to Present Java and Node api development Principal Software Developer DAI Global - Bethesda, MD September 2013 to March 2019 Built spatial data driven web application for our agriculture projects in Haiti using PostgreSQL and Java Managing a team of engineers in South America Architected a new data model for how projects collect information Developing data analytics output system in Pandas and Jupyter Notebook Building prototypes with Firebase for an early stage climate-risk project GIS Programmer Analyst World Bank - Washington, DC March 2011 to June 2012 Developed the World Bank's public facing Climate Data API. This REST style API is supporting the World Bank's Apps for Climate contest in the Spring of 2012 Used GeoTools to develop a large PostGIS database containing country level climate data for various climate models and derivative statistics Built a city vulnerability web application using SVG and PolyMaps and Google App Engine to model typhoon risk in Manila Developed a processor for intersecting climate shape files with political boundaries to produce html based graphs and maps. Web Application Developer Vykin Corporation - Washington, DC February 2010 to March 2011 Developed modern web applications for the National Geospatial-Intelligence Agency with Java Instructor/ Software Developer Partners in Health - Kigali December 2008 to November 2009 Taught web development, Java programming, and J2EE to ten computer science students Created exams, problem sets, and programming assignments to cover topics in object oriented design, polymorphism, basic design patterns, and concurrency Implemented a patient data entry system using OpenMRS and Java for a health center in Kigali Developed web-form data entry modules with dynamic front-end behavior with jQuery and AJAX Developed an address-hierarchy module using jQuery, Spring, and MySQL to help a hospital standardize patient locations Developed a module to manage patient drug regimens using the ExtJS Javascript framework Research Programmer RAND Corporation - Arlington, VA March 2006 to November 2008 Developed a multi-tier Java and Oracle application to simulate tactical air defense scenarios

Developed a simulation to model proximity events in tactical air defense scenarios using the Breve development environment   Implemented a Google Maps web application to view U.S. Army facility location data stored in a MySQL database   Created GIS components using the Google Maps API and AJAX to track mortar attacks on forward operating bases in Iraq   Research Assistant   Developed a database driven web application using J2EE, Hibernate and KML for analyzing geographic and temporal distribution of improvised explosive device events in Iraq on Google Earth   Defined the data model, designed the database, and developed a web application with Hibernate and Spring to track insurgent activity in Iraq   Developed an AJAX based job scheduler for a cluster of computers using the Google Web Toolkit   Consultant   Booz Allen Hamilton - McLean, VA   December 2003 to March 2006   Developed a database driven J2EE web application for the Coalition Provisional Authority in Baghdad for tracking progress during reconstruction and transition of government in Iraq   Developed a database backup application for the Coalition Provisional Authority using Java socket level network programming   Education   Masters of Science in Geographic Information Systems   University of Edinburgh   June 2013   Graduate Certificate in Intelligence Studies   Mercyhurst University   2005   Bachelor of Science in Computer Science   University of Colorado   2002   Skills   Java (7 years), Javascript (9 years), SQL (7 years), GIS (5 years), HTML,   JQuery,   Linux,   Sql   Server   Links   <https://medium.com/@DeRiggible>   <https://www.linkedin.com/in/jderiggi>   <https://github.com/deriggi>   Additional Information   Java   Python   JavaScript   Data Modeling and SQL   Product Management   Software Architecture   GIS and Spatial Data

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