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I am a full-stack software engineer who has succeeded in a C-Suite government position for 4 years.
I built a high performing technical team that operates in a nuanced, political environment.
I love building relationships and bridging the gap between problems and solutions.

City of San Diego - Chief Data Officer (2014 - Present; San Diego)

Finding Problems to Solve and Communicating with Others.

- Use design thinking techniques to uncover hidden data utilization and workflow problems.
- Continuously communicate with customers to successfully prioritize tasks and manage products.
- Succeed at negotiations with vendors and partners by using technology expertise to influence outcomes.
- Advise cities, states, and countries, on data strategy; Founding member of [Harvard Civic Analytics Network](#).
- Educate media, internal and external stakeholders by regularly presenting at meetings and conferences.
- Recognize when I'm out of space, and point to a [longer document](#) outlining my team's work.

Delivering Solutions to Problems.

- Lead a team to implement [ETL architecture](#) using Apache Airflow. Enable multiple workflow improvements.
- Integrate multiple databases and develop software to save thousands of dollars and improve processes.
- Develop robust APIs using AWS Lambda, Swagger and Serverless.
- Integrate Airflow with legacy systems such as Oracle, ESRI Databases, and SAMBA shares.
- Create geospatial analyses, alerts and data pipelines using GDAL, MapBox, Carto, and others.
- Deploy and secure cloud architecture on AWS, GCP and DigitalOcean, as well as VMs on City data centers.
- Develop Sonar, a rule-based alerting system for performance measurement using Airflow and KeenIO.

Empowering My Team and Coworkers.

- Set the vision, [philosophy](#), and built an award-winning Data & Analytics program.
- Train a team with almost no prior experience to become professional Python, R and JS developers.
- Lay the groundwork for City Cloud architecture by working with IT and AWS to implement AWS Launchpad.
- Implement data governance; Launch internal data catalog, minimizing data acquisition time.
- Design DevOps workflows with Docker and CircleCI, standardizing development, testing and deployment.
- Work with interdisciplinary teams to deliver data science projects and tools using open source software.

Select Projects

- [StreetsSD](#) (APWA Award) ([code](#))
- [DataSD Open Data Portal](#) ([code](#))
- [StormVIO](#) ([code](#))
- [RefugiosPR Emergency](#) ([code](#))
- Drawbridge ([RESO DataComp Winner](#))
- [PrimerPeso Incentive Finder](#) ([code](#))
- [Savvy Savannah](#) ([Zoo Hackathon Runner Up](#)) ([code](#))

Select Publications

- [DataSD 2018 Report](#)
- [Telling a good story](#)
- [Why data automation matters](#)
- [What is a dataset?](#)
- [Improving Gov't Services w Airflow](#)

Select Presentations

- [Carto Locations Presentation 2018](#)
- [Making City Data Emergency Ready](#)
- [Tacos & Tech Podcast](#)
- [City Data Ignite](#)
- [Razak School of Gov't Malaysia Presentation](#)

Select Awards / Features

- [Top 50 Data & Analytics Professionals](#)
- [SD Society of Journalists - Sunshine Award](#)
- [What Works Cities Silver Certification](#)
- [Harvard Civic Analytics DataSmart Profile](#)
- [Public CIO Magazine](#)

Code For America - Fellow, Puerto Rico Team (2014, San Francisco)

Code for America uses the principles and practices of the digital age to improve how government works.

- Built relationships with government and business to research economic dev. opportunities in Puerto Rico.
- Led a team of four to build [PrimerPeso](#) - a platform to match entrepreneurs with government incentives.
- Organized multiple events in the Puerto Rican Senate; Helped to start [Code4PR](#) in San Juan.

Promet Source, Inc - Senior Developer and Solutions Architect (2013, Chicago)

Promet delivers sophisticated, mission specific open source web and mobile applications.

- Designed developer workflows and Continuous Integration / deployment (CI/CD) processes.
- Trained internal developers on best practices, and expanded consulting practice by training client teams.
- Developed custom two-way data integration of Drupal and CRM system on time and on budget.
- Deployed network of 12 SSO Drupal Sites using unique CI and configuration management techniques.

AllPlayers.com, Inc - Web Developer (2011 - 2013, Chicago)

AllPlayers.com is a comprehensive software for managing athletic departments.

- Designed and developed Restful APIs, ecosystem, and tooling, resulting in additional revenue.
- Developed and deployed AllPlayers.com iPhone app, into the App Store.
- Migrated 3.5 years of product, billing, and payment data from a legacy system, reducing technical debt.

Mobile Anthem / Freelance - Lead Engineer (2009 - 2011, Chicago)

Mobile Anthem provides custom mobile marketing solutions.

- Developed PHP / SOAP integration for Procter & Gamble to sync two databases.
- Led a team of five developers from three companies to transition P&G to a dedicated shortcode.
- Clients included College Illinois, Sara Lee, Wal-Mart, P&G, Chicago Red Dress, SellACow, and others.

Community Engagement / Volunteering (2009 - Present, Chicago, Oakland, San Diego, Puerto Rico)

- Co-Founder Chicago Advanced Drupal Group
- YTH Youth Hackathon Mentor, First Place
- ScaleSD Active Member
- Ocean Discovery Institute Volunteer
- Co-Founder, API-Craft Chicago
- Co-Founder, Code4Puerto Rico
- Open San Diego Steering Team
- Advisor, DoWhop.com

DePaul University (2005 - 2009, Chicago)

- Bachelor of Science - Information Systems

Linköping University (2007-2008, Linköping, Sweden)

- Bachelor of Science - International Business Administration (*Joint Degree Program*)

Ecole Commerce Européenne (2007-2008, Lyon, France)

- International Business Administration (*Joint Degree Program*)

Certificates and Formal Continuing Education

- Coursera Data Science Specialization Courses; 2015
- City of San Diego Management Academy; 2016
- City of San Diego Supervisor Academy; 2016
- City of San Diego Operational Excellence Academy 2018

Languages

- English (fluent)
- Russian (fluent)
- Spanish (conv.)