



Mayor of Providence

Jorge O. Elorza

March 7, 2018

Honorable Members
Providence City Council
City Hall

Dear Honorable Members:

Pursuant to Sections 302(b) of the Providence Home Rule Charter of 1980, as amended and Public Law, Chapter 45-50, Sections 1 through 31 passed in 1987, I am this day appointing David Stuebe of 10 Ellery Street, Providence RI, 02909, as a member of the Ethics Commission for a term to expire on February 5, 2022. Mr. Stuebe replaces Ms. Dure whose term has expired.

Sincerely,

A handwritten signature in black ink, appearing to be "Jorge O. Elorza".

Jorge O. Elorza
Mayor

IN CITY COUNCIL

APR 05 2018

READ
WHEREUPON IT IS ORDERED THAT
THE SAME BE RECEIVED.
A handwritten signature in black ink, appearing to be "Juno [unclear]".
CLERK

Experience

2014–present **Senior software engineer**

Upserve, Providence, RI.

- Development Projects
 - Multifaceted descriptive analytics for restaurant customers, employees and menu items
 - Request time aggregation architecture for rapid iteration on new analytics
 - Framework for composable data processing workflows
 - Graph database customer relations management prototype
- Responsibilities
 - Senior engineer: planning, design and architecture team leader on numerous projects
 - Data owner: Architectural review and design continuity for data storage, management and analysis
- **Technologies:** Java, Ruby, AWS DataPipeline, AWS Kinesis, AWS ElasticMapReduce, AWS EC2, AWS S3, AWS IAM, AWS Redshift, AWS RDS, AWS Dynamo, TitanDB, Docker
- **Management Tools:** Trello, Aha, GitHub, Hipchat, Slack, Jenkins

2008–2014 **Ocean science consultant and senior software engineer**

RPS ASA, South Kingstown, RI.

- Consulting Projects
 - Operationalize local HPC ocean forecast on Amazon AWS infrastructure
 - Lagrangian oil spill modeling & analysis framework
 - Scaling analysis of gravity flow dynamics for brine discharge simulations
 - 2d turbulent boundary layer simulation for wind farm siting
 - Inundation risk assessments for nuclear power stations
 - OGC metadata standards implementation for US IOOS
 - Mentored high school student intern developing an ocean data Iphone app
- Responsibilities
 - Senior developer: led teams in design and implementation of multiple projects
 - Scientific consultant: technical lead for challenging problems in applied ocean physics
 - Project manager: proposals, design, scope, budget, schedule, presentations & reporting
- **Technologies:** Python, MPI4Py, Cython, NumPy, Numexpr, Nose, Matlab, ArcGis, Java, Fortran 2003, GIT, GitHub Enterprise, XQuery, NetCDF, OpenDap, HDF5, XML, OGC, WRF, FVCOM, Amazon AWS, StarCluster, Linux, Windows
- **Management Tools:** Jira, PivotalTracker, GitHub, Flowdock, Microsoft Project, Jenkins

2009–2012 **Lead developer, data management subsystem**

At RPS ASA for OOICI, San Diego, CA.

- **Design components**
 - Distributed message-based services for ingestion, processing and delivery of science data
 - Data model for streaming, aggregation, caching and storage of observations and models
 - Data serialization & encoding for transport and storage
- Responsibilities
 - **Integrated product team lead for data management: scope, schedule and deliverables**
 - Dev/Ops for ION Release 1: deployment, operations & debugging of distributed system
 - Management and life cycle: requirements, risk analysis, staffing & review presentations
- **Technologies:** Python(Gevent, Twisted), Java, RabbitMQ, MsgPack, YAML, Cassandra, CouchDB, Redis, GIT, NumPy, Cython, NetCDF, OpenDAP HDF5, GML, SWE
- **Management Tools:** Jira, EnterpriseArchitect, Rational DOORS, DoDAF, Confluence, Campfire, Github

- 2006–2008 **Research associate, Marine Ecosystem Dynamics Modeling Laboratory**
UMASS Dartmouth, School of Marine Science & Technology, New Bedford, MA.
- Projects
 - Design, architecture & development of the Finite Volume Community Ocean Model V3.0
 - Parallel unstructured grid VisIt (LLNL) C++ data reader plugin for 3D visualization
 - Objective analysis method for satellite sea surface temperature using spatial correlation
 - Responsibilities
 - FVCOM development & integration: implementation, bug tracking and HPC deployment
 - Linux IT: lab work stations, HPC Infiniband cluster, and software package management
 - Development and operation of the Northeast Coastal Ocean Forecast System
 - **Technologies** Fortran90/95, MPICH2.0, Infiniband, HPC, NetCDF, Visit, C++, VTK, Linux, Python, CVS
- 2002–2006 **Graduate research assistant**
MIT/WHOI Joint Program in Physical Oceanography, Woods Hole, MA.
- Projects
 - Salt finger flux divergence in an oceanic thermohaline staircase
 - Variance budgets (salinity, temperature and *tke*) in salt finger microstructure profiles
 - Fiber optic sensor for optical index of refraction using a resonant micro-cavity
 - Sulfur HexaFluoride laboratory tank experiments with double diffusion
 - Responsibilities
 - Salt Finger Tracer Release Experiment data analysis: master's thesis
 - Construction and maintenance of optical, acoustic and turbulent microstructure instrumentation for the Dynamic Response Tank
 - Ship board research assistant for two oceanographic research cruises
 - **Technologies:** Matlab, L^AT_EX, Microstructure sensors, the High Resolution Profiler, SF6 dissolved tracer

Education

- 2002–2005 **MS** *Massachusetts Institute of Technology & Woods Hole Oceanographic Institution.*
 Physical Oceanography
- 1998–2002 **BS** *Duke University, Trinity College of Arts and Sciences.*
 Major: Earth & Ocean Science; Minor: Mathematics

Open source projects

- Uppend Contributor to github.com/upserve/uppend an append only key-multivalue store
- Python Developed github.com/dstuebe/generators an IPython presentation on Python
 Generator generators and coroutines for the Rhode Island Python Users group
meetup.com/Rhode-Island-Python-User-Group/
- Wicken Developed github.com/ioos/wicken, the Python metaclass based ORM and concept
 behind the US Integrated Ocean Observing System's github.com/ioos/metamap project.
- ION Developed github.com/ooici/ioncore-python deployed as ION, the first release of the
 OOICI program.
- Redis Developed as a prototype under OOICI, gist.github.com/dstuebe/5143032 is a context
 Coordination manager for coordinated streaming data processing in a distributed system.

Community Activities

2017-2018 APCD DRRB Member

RI DOH All Payer Claims Data Release Review Board, Providence, RI.

As the consumer representative on the states Health Facts data release review board I help protect the privacy of health information. Ensuring all applications to access Health Facts follow strict security protocols and best practices for handling personal health information protects the consumer and protects the future of this important program. Open access to health care claims data is the foundation for data driven policy to improve health care in our state.

2013-2018 WBNA Board Member

West Broadway Neighborhood Association, Providence, RI.

As a board member of the WBNA I believe deeply in our mission to coordinate neighbors and businesses on the west side of Providence to preserve and promote the diverse, historic, urban community as a safe, vibrant, and sustainable place to live, work, and play. WBNA board members participate in governance and share fiduciary responsibility for the organization. With only two full time staff I am also participate in fund raising, membership drives, media and marketing as well as co-chairing the Neighborhood Action & Crime Watch committee. The NACW holds monthly community meetings providing an important channel for communication between the community and state and local government. As co-chair for the past three years I have organized and promoted these meetings. The NACW co-chairs also organize the annual Spring Cleanup. With over 150 volunteers, it is largest volunteer event for the WBNA. Working with the WBNA staff we organize community members to take ownership of their streets and drive turnout for an event which removes hundreds of bags of litter and yard waste from our community streets every year.

2013-2016 SLTP Leadership Instructor

Student Leadership Training Program, Marshfield, MA.

As a leadership instructor with SLTP I teach leadership education for 7 - 12th graders in a week long residential program. SLTP is a student led organization teaching skills including communication, collaboration, problem solving, assertiveness, team building, and group process. With more than 120 hours of training per year and more than 50 staff, I am paired with a student staff member to prepare for and teach each skill in small classes using experiential learning during the residential programs. While it is highly rewarding in its own right, SLTP continues to help me refine my leadership style and reflect on my professional experience.