

David J. Iannucci, MSCS

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SUMMARY

Salt Lake City, Utah-based Linux/UNIX-centric software developer/technologist with decades-long career looking for a new challenge. Open to hands-on dev work, sysadmin, management. Languages: Ruby, Go, Python, Perl. Some Java. Proficient in Git, MVC, OO design/OOP.

EXPERIENCE

University of Hawaii at Manoa

Honolulu, HI

Lead Software Developer & Database Manager, UHERO (uhero.hawaii.edu)

October 2016 – September 2023

- Developed large Ruby on Rails application (~25k LOC) to improve time-series data management for economic forecast team, serving the needs of gov't and business in Hawaii. Designed/refactored for extensibility, security, performance, and maintainability. One app server runs user GUI, while Sidekiq is deployed on separate server for outboard background job processing, with coordination by Redis.
- Designed and created full backend to drive an external client's economic data portal, including REST API written in Go, ETL layer in Ruby, database schema for MySQL. Worked with client in on-going way to address system issues and maintenance.
- On-going development of another (very different) legacy REST API written in Go.
- Administered 4 RHEL Linux virtualized servers to host aforementioned software, including one public-facing web server, a MySQL server, and a staging server. Miscellaneous programming and systems integration and management tasks.
- Other tech used: Github, Nginx, Postman, Travis CI/CD, MariaDB, RSpec, JIRA, Confluence, Highcharts.

IT Specialist/Developer, Institutional Research Office (manoa.hawaii.edu/miro)

June 2013 - October 2016

- Empowered campus decision-makers with creation of first-ever IT server infrastructure and web dashboard (in PHP/JS/CSS) for IR office. Institutional data distilled into easily digestible charts and graphs, by a diverse set of web-based visualization tools allowing users to slice-and-dice data based on parameters of interest. Full data pipeline implemented, from institutional db via custom ETL, to web db. Administered one RHEL Linux server to host these tools along with MySQL.
- Supported IR analysts with complex SQL data retrieval from institutional databases, mainly Oracle (PL/SQL).
- Worked in compliance with data governance laws and regulations, like FERPA.

Utah Education Network (University of Utah)

Salt Lake City, UT

Software Developer

January 2005 – July 2011

- Developed both educational web apps for use by Utah K12 teachers, and network management tools to support the operations center of state-wide educational internet. Wrote, maintained, refactored, and improved security for a variety of stand-alone and web (mostly database-driven) applications and integrations in object-oriented Perl, Ruby on Rails, and Java, on Solaris.

Myriad Genetics

Salt Lake City, UT

Programmer III

May 2000 – March 2004

- Provided programming support for biotechnology research. Wrote stand-alone apps and web CGI in Perl on Solaris related to automated DNA sequence analysis and associated tasks, mostly relational database-driven. Designed and developed various web-based tools to allow scientists to manipulate genetic data, collect data in the field, and analyze research results.

ASAHI Net

Tokyo, Japan

Programmer/Network Engineer

April 1992 – October 1999

- Developed a real-time, distributed IPC server offering reliable packet delivery, high availability, and process migration, implemented from scratch in C under UNIX. Other systems programming. Performed a variety of system and network administration tasks primarily centered around Internet routing. Represented the company at Japanese ISP industry technical meetings. Initiated English language support services in 1996 and hired and trained two native-speaking staff members.

NASA Ames Research Center

Internet (TCP/IP) Network Engineer

Mountain View, CA

April 1989 – January 1992

- Member of the Network Development group at NASA Advanced Supercomputing Division. Developed TCP/IP-related software in C under UNIX. Tested and evaluated network hardware and software. Participated in Research Internet Gateway (RIG) experimental WAN router evaluation. Assisted in the design of multi-protocol routing architectures for LAN and WAN networks. Involved in activities ranging from the pulling of cable to the specification of protocols.

EDUCATION

St. Joseph's University (Philadelphia, PA)

B.S. Mathematics, 1987

Stony Brook University (SUNY)

M.S. Computer Science, 1989

University of Utah

M.A. Linguistics, 2009

University of Hawaii at Manoa

Ph.D. Linguistics, 2019