

Larry Hengl

Senior Software Engineer | Richmond, CA

Experienced fullstack developer, database architect and pipeline engineer in bioinformatics, expanding into quantum computing. Specializing in scientific web applications, data architecture and workflow tools for processing, analyzing and visualizing research data.

EXPERIENCE

BioMarin Pharmaceutical, San Rafael, CA APR 2015 — MAY 2024 {9yr}

Principal Engineer, Bioinformatics | Genomics

- Architected bioinformatics databases and applications for analysis of genetic variants in rare diseases.
- Managed large and small external and internally sourced datasets.
- Lead engineering teams of 15+ remote contractors.
- Built fullstack systems and pipelines to enhance scientific workflows.
- Co-produced platforms for best practices in app source code management and automated app deployment, and provided training.

Novartis / Chiron, Emeryville, CA DEC 2000 — APR 2015 {15yr}

Programmer Analyst IV, NIBR IT&AS | 2005 — 2015

Database Specialist, Bioinformatics | 2000 — 2005

- Built informatics and IT systems to support cancer and infectious disease research.
- Architected Oracle databases in bioinformatics and performed DBA role.

UC San Francisco, SF, CA OCT 1994 — NOV 2000 {6yr}

Programmer Analyst III, Cancer Center | 1999 — 2000

Programmer Analyst/Assistant Statistician | 1994 — 1999

- Built data collection systems for oral studies, HIV studies, and cancer research using MS tools, Oracle, SQL, PHP.

Santa Barbara Breast Cancer Institute, SB, CA APR 1992 — DEC 1993 {1.5yr}

Statistician

- Built and analyzed datasets for breast cancer studies lead by Dr. Otto Sartorius.

Concurrent Appointments

UC Berkeley Extension

Muster Learning Architects, Berkeley, CA JUN 1998 — APR 2001 {3yr}

Oracle Instructor: SQL and PL/SQL | 1999 — 2001

Volunteer Unix Intern/Oracle Teaching Assistant | 1998 — 1999

Cancerlinks LLC, Berkeley, CA JUL 1999 — JAN 2002 {2.5yr}

Volunteer Web Database Programmer

Building research tools and databases to help advance technologies and fight diseases.

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SKILLS

Languages

Javascript, Python, R, SQL

Frameworks

JS - Svelte/SvelteKit, React, Vue, jQuery
Python/R - Dash, Streamlit, Shiny
CSS - Tailwind, Flowbite, UIKit, Bootstrap
Viz - Spotfire, Plotly, ChartJS, Highcharts, D3, Crossfilter

Databases

DuckDB, PostgreSQL, MySQL, Oracle, Neo4j, CouchDB, MongoDB, Elasticsearch

Services

Node.js, Express, Hapi, Flask

Cloud/HPC

AWS RDS/S3, Cromwell, SLURM

Platforms & Tools

DNAnexus, Benchling, git, GitLab, GitHub, CI/CD, Jira, Confluence, Docker, RStudio, RConnect, Jupyter, Excalidraw, Monday.com

Testing

NPM, Tape, Mocha, Chai/Sinon, Selenium, PhantomJS, Postman

Docs

Quarto, Markdoc, Dox, Markdown

MS

PowerBI, PowerAutomate, PowerQuery, Sharepoint, Teams

Open Source Author

GitHub – myvariantjs

<https://github.com/larryhengl/myvariantjs>

myvariantjs-demo

<http://larryhengl.github.io/myvariantjs-demo/>

EDUCATION

Bachelor of Science, Statistics
UC Santa Barbara (UCSB), 1992