|  |  |
| --- | --- |
| 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 2015 — 2024  Associate Director, Genomics | 2019 — 2024  Senior Engineer, Bioinformatics | 2015 — 2019  • 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 2000 — 2015  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 1994 — 2000  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 1992 — 1993  Statistician  • Built and analyzed datasets for breast cancer studies lead by Dr. Otto Sartorius.  *Concurrent Appointments*  **UC Berkeley Extension**  **Muster Learning Architects**, Berkeley, CA 1998 — 2001  Oracle Instructor: SQL and PL/SQL | 1999 — 2001  Volunteer Unix Intern/Oracle Teaching Assistant | 1998 — 1999  **Cancerlinks LLC**, Berkeley, CA 1999 — 2002  Volunteer Web Database Programmer | *Building research tools and databases to help advance technologies and fight diseases.*  *~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~*  larrylayup@gmail.com  larryhengl.github.io  linkedin.com/in/larry-hengl-8134012  **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 |