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| 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.*  *~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~*  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 |