

# Alan Lin

San Francisco, CA, USA

[lin.alan.k@gmail.com](mailto:lin.alan.k@gmail.com) | [linkedin.com/in/alan-lin-13112940/](https://linkedin.com/in/alan-lin-13112940/) | [github.com/aklin2](https://github.com/aklin2) | [tinyurl.com/alan-webpage](https://tinyurl.com/alan-webpage)

## Experience

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### **BCForward**

June 2022 - Nov 2023

#### *Full Stack Developer*

Principal engineer in the development and operation of bioinformatics pipeline for drug discovery process. I accomplished:

- Reduced operational overhead by 66% by creating a user-initiated automated pipeline.
- Improved user-experience by creating logging and email alerts.
- Created concordance analysis pipeline for orthogonal assays.
- Created control sequence/plate/well check.
- Resolved UI and performance issues in the Django web app.
- Improve sample acceptance rate by 20% by data analysis of historical sequencing data.
- Stack: Django, Python, Perl, Postgresql, React, Bash, Javascript, Unix/Linux

### **Invitae**

Aug 2020 - June 2022

#### *Bioinformatics Analyst*

Engineer of lab workflows and bioinformatics pipelines. I accomplished:

- Project manager for report tracking web application.
- Data analyst in digital array technology.
- Identified areas of process improvement and automated repetitive tasks.
- Sample and Batch sequencing QC data review.
- Manager of the team Github repo.
- Stack: Flask, Python, Bash, Postgresql, MySQL

### **Invitae**

Oct 2018 - June 2022

#### *Clinical Laboratory Scientist (MB)*

I processed clinical samples within a CLIA-certified clinical laboratory. Trained/mentored lab techs, DRI for assay development projects, analyzed sequencing data, etc.

### **Invitae**

Sept 2016 - Oct 2018

#### *Clinical Lab Technician*

Processing clinical samples for sequencing/imaging under CLIA and CAP regulations.

## Technical Skills

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### **Computer Related:**

#### *Languages:*

Python, Javascript, Typescript, HTML, CSS, Bash, Perl, C++, Shell

#### *Framework/Libraries/Utilities:*

Jupyter Notebook, matplotlib, seaborn, plotly, ggplot2, numpy, pandas, NodeJS, ExpressJS, ReactJS, NextJS, JQuery, Axios, AWS (S3, EC2, RDS), CI/CD, Git, Docker, Django, Flask, Cron jobs, pytest, unit tests, HTML5

#### *Databases:*

SQL, SQLite, MongoDB, Postgresql, NoSQL, Datomic, datalog

#### *Misc:*

GitHub, Unix, Linux, Jira, Confluence

#### **Biology Related:**

#### *Assays:*

Next-Generation Sequencing using Illumina Platform (HiSeq 2500, HiSeq 4000, and NovaSeq 6000), Chain-Terminating Sanger Sequencing (ABI 3500xL), Multi-Ligation Probe Amplification, MLPA, Microarray-based Comparative Genomic Hybridization (Agilent Feature Extraction software), Preimplantation Genetic Screening/Testing (PGS/PGT), PacBio SMRT cell sequencing

#### *Misc:*

Bioinformatics, Molecular Biology, DNA sequencing, Laboratory Information Management System (LIMS).

## Licenses & Certifications

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**California Department of Public Health** Jul 2018  
Clinical Genetic Molecular Biologist Scientist (CGMBS)

**American Society for Clinical Pathology (ASCP)** Oct 2018  
Technologist in Molecular Biology (M.B.)

## Education

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**City College of San Francisco** Nov 2023 - In Progress  
Associate of Science (A.S.) - Computer Science

**California State University - Los Angeles** Sept 2018  
Post-Baccalaureate - Clinical Genetic Molecular Biologist Scientist (CGMBS)

**University of California - Davis** Mar 2016  
Bachelors of Science (B.S.) - Biological Science - Microbiology & Biotechnology emphasis