



CHAO CHARLIE HUANG

Software Engineer | San Jose, CA
chaocharliehuang@gmail.com | 408-660-6879
Portfolio: www.chaocharliehuang.com
GitHub: www.github.com/chaocharliehuang
LinkedIn: www.linkedin.com/in/chaocharliehuang

SUMMARY

Software engineer and full-stack web developer passionate about building sophisticated yet accessible programs for biotech/healthcare; former biomedical engineering PhD with extensive data analysis/acquisition programming experience and independent problem-solving abilities.

SKILLS

- **Languages:** JavaScript (ES6), JSX, TypeScript, Python, Java, CSS, Sass, HTML
- **Front End:** React, Angular, jQuery, AJAX, JSON, RESTful APIs, Bootstrap, Materialize
- **Back End:** Node.js, Express, Django, Flask, Spring MVC, AWS (EC2, Lambda), NGINX
- **Database:** MySQL, NoSQL, MongoDB, Mongoose, Django ORM, Spring JPA, JPQL
- **Software:** Git, MySQLWorkbench, NPM, Babel, Webpack, Postman, MATLAB, R, LabVIEW
- **Methodologies:** OOP, MVC, RESTful Architecture, CRUD, Responsive Web Design

EXPERIENCE

- **Software Engineer, 23andMe, Mountain View, CA** Dec 2017 – Present
 - Software and full-stack web development of new features, frameworks, and tools for genotype data processing at the world's leading source of personal genetic information
- **Postdoc Bioengineer, Lawrence Livermore National Lab, Livermore, CA** Jun 2014 – Jun 2017
 - Developed software in R and MATLAB for digital signal processing of electrophysiology data from cell cultures; reduced data processing times by 2 orders of magnitude and streamlined overall data analysis workflow
 - Coded lab automation programs in LabVIEW for precise handling of biological samples and achieved processing of sub-100- μ L fluid volumes
 - **Accomplishments:** 2 publications, 1 patent application, 1 Excellence in Publication Award
- **Graduate Research Assistant, Cornell University, Ithaca, NY** Aug 2008 – May 2014
 - Coded LabVIEW and MATLAB programs for characterization and image analysis of cancer cells, improved accuracy over manual measurements by 1 order of magnitude
 - **Accomplishments:** 7 publications, 1 provisional patent, \$120k in fellowships

EDUCATION

- **Certificate of Completion, Full-Stack Web Development, Coding Dojo, San Jose, CA** 2017
- **Ph.D., Biomedical Engineering, Cornell University, Ithaca, NY** 2014
- **B.S., Bioengineering (with College Honors), University of Washington, Seattle, WA** 2008