

UYEN NGUYEN

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GitHub: <https://github.com/uyennguyen30696>

Portfolio (React.js): <http://uyen-portfolio.s3-website-us-west-1.amazonaws.com/>

PROJECTS

- ❖ **React Portfolio.** My personal portfolio showcasing my web applications.
<http://uyen-portfolio.s3-website-us-west-1.amazonaws.com/>
Technologies: React.js, Javascript, HTML, CSS, AWS S3
- ❖ **Confessions.** A full-stack social platform that allows users to post and share thoughts anonymously.
<https://github.com/uyennguyen30696/confessions>
Technologies: MERN stack - MongoDB, Express, React, Node.js
- ❖ **Interactive Volcano Plot.** An R Shiny web application for bioinformatics data visualization.
https://github.com/uyennguyen30696/interactive_volcano_plot
Technologies: R, R Shiny

EXPERIENCES

Graduate Student Researcher February 2023 - June 2024
Benedict Paten's Lab at UCSC Santa Cruz, CA

- ❖ Associated with the MERFISH human lung cancer cell type prediction project in the spatial transcriptomics team
- ❖ Analyzed bulk and single-cell RNA-seq data, and performing downstream analyses including cell type annotation and differential gene expression analysis
- ❖ Contributed, maintained, and optimized the project codebase in Python and R
- ❖ Utilized Unix/Linux and HPC environments to efficiently manage and analyze large-scale genomic and high-dimensional spatial datasets
- ❖ Collaborated with a diverse research team and presented in lab meetings to discuss the results
- ❖ Demo code: https://github.com/uyennguyen30696/spatial_transcriptomics_demo

Teaching Assistant September 2022 - June 2023
University of California, Santa Cruz Santa Cruz, CA

- ❖ Conducted discussion sessions and prepared slides for supplementary materials for courses including CSE 20 (Beginning programming in Python) and CSE 183 (Web applications)
- ❖ Proctored exams, graded assignments, and provided constructive feedback for students

Research Associate

Cantata Bio, LLC

May 2021 - August 2022

Scotts Valley, CA

- ❖ Associated with TopoLink assay development project in the R&D team that was successfully launched in June 2022
- ❖ Prepared DNA libraries and QC of samples for Illumina Next Generation Sequencing (NGS)
- ❖ Participated in hiring interview process of research associate role

Grossing Technician

California Skin Institute

September 2019 - November 2020

Los Gatos, CA

- ❖ Maximized efficiency by preparing patient tissues for specimen processing in fast-paced environment
- ❖ Preserved chemical resources to save possibly thousands of dollars while ensuring the maintenance of the tissue processor

EDUCATION

M.S., Biomolecular Engineering & Bioinformatics

University of California, Santa Cruz

September 2022 - January 2024

Santa Cruz, CA

Certificate, Full Stack Web Development

UC Davis Continuing and Professional Education

September 2020 - March 2021

Remote

- ❖ Fundamental concepts of web development, command line, and API consumption
- ❖ Working with servers, databases, back end technologies, and connecting them to the front end
- ❖ Optimize web applications for speed and efficiency

B.S., Biochemistry and Cell Biology

University of California, San Diego

August 2017 - August 2019

La Jolla, CA

A.S., Biological Science

De Anza College

June 2014 - June 2017

Cupertino, CA

A.A., Liberal Arts - Science, Math & Engineering

De Anza College

June 2014 - May 2017

Cupertino, CA

SKILLS

Programming languages & Technologies

- ❖ Languages: Python, R, Javascript
- ❖ Libraries: numpy, pandas, scanpy, matplotlib, scikit-learn, squidpy, R shiny
- ❖ Web technologies: HTML5, CSS, React.js
- ❖ Version control & deployment: Visual Studio, Jupyter Notebook, Git/GitHub
- ❖ Databases and DBMS: SQL, MongoDB
- ❖ Operating systems & tools: MacOS, Linux
- ❖ Cloud services: AWS S3
- ❖ Object-oriented programming (OOP)