

Raymond Louis Chen

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EDUCATION

UNIVERSITY OF CALIFORNIA, DAVIS - Davis, CA
Bachelor of Science, Biochemistry and Molecular Biology
Minor, Computer Science
G.P.A. 3.735

Expected June 2022

EXPERIENCE

UNDERGRADUATE RESEARCHER

Janata Lab

January 2021 – June 2021

- Facilitated data analysis efforts for the *Jingle Project* music neuroscience study by qualitatively labeling and manually processing hundreds of music-evoked memories from test subjects
- Wrote a Python script to automate the scoring and labeling process for semantic memories
- Refurbished "The Golden Standard of Annotations," the lab's out-of-date music-evoked memory annotation guide

DISCUSSION/LAB SECTION LEARNING ASSISTANT

UC Davis Physics Department

September 2020 – June 2021

- Helped spearhead the first online launch of the Learning Assistant program
- Guided Physics 7 students through the new, challenging environment posed by remote learning
- Led discussions in breakout rooms, challenged students to think independently, and explained troublesome concepts

UNDERGRADUATE RESEARCHER

Hunter Lab

September 2018 – March 2020

- Investigated the role of SUMOylation in the regulation of meiosis in the eukaryotic model organism *Saccharomyces cerevisiae* under Nikhil Bhagwat, Ph. D
- Collected statistical data on strain viability, performed assays and purifications, dissected hundreds of yeast tetrads, and maintained dozens of yeast strains
- Prepared and presented an exhibit titled "Yeast Meiosis for the Layperson" for representatives from a University of California, Davis funding organization who visited the lab

LAB TECHNICIAN, ACCOUNTANT, WEB DEVELOPER, IT SPECIALIST

Virovek Incorporation

June 2017 – September 2019

- Cloned and purified recombinant DNA containing customers' genes of interest
- Managed deposition and withdrawal of funds and ordered essential lab supplies
- Established a toll-free company phone line with a digital receptionist to streamline communications
- Improved layout and functionality of the company's website

SKILLS

GENERAL

- Razor-sharp attention to detail
- A knack for pinpointing and correcting typographical errors
- A powerful capacity for adaptation and quick learning

BIOTECHNOLOGY AND BIOLOGY LAB TECHNIQUES

- Molecular cloning techniques, including restriction enzyme digestion, PCR, E. coli transformation and antibiotic selection, gel electrophoresis, and DNA purification
- Protein assays and protein biochemistry methods, including A₂₈₀ assays, Bradford assays, spectrophotometric kinetics assays, SDS-PAGE, Western blotting, and protein purification
- Preparation of culture media, autoclaving, sterile technique, biosafety cabinet and fume hood usage, and lab equipment maintenance

COMPUTER PROGRAMMING

- Coding/scripting in Java, C, C++, Python, R, Lua, JavaScript, bash, and PowerShell
- Using bioinformatics tools, including bowtie2, trimmomatic, samtools, and FASTQC
- Using web and mobile app development languages, libraries, frameworks, environments, and protocols, including React, Node.js, Next.js, Express, Hugo, React Native, Expo, WordPress, Divi, and OAuth2
- Working with modern programming tools, including git, GitHub, the Linux environment, and Virtual Studio Code

TEACHING AND COMMUNICATION

- Planning and delivering lessons, simplifying and explaining complex topics
- Public speaking, delivering presentations with and without a visual aid

ART, MUSIC, AND DIGITAL MEDIA

- Graphics and audio/video media production with GIMP, Adobe Premiere Pro, Audacity, and Ableton Live
- Editing and proofing manuscripts and videos
- Composing, arranging, producing, recording, mixing, and mastering music in a home studio environment
- Distributing music to major streaming platforms such as Spotify and YouTube Music

WORKPLACE AND ACADEMIC SOFTWARE

- Using Microsoft Office, Google Suite, Zotero, Vtiger CRM, QuickBooks, and L^AT_EX

HONORS AND ACTIVITIES

UC Davis College of Biological Sciences Dean's List, UC Davis Jazz Ensembles, Davis Melee Club

SELECTED PERSONAL PROJECTS

RAIDSRC.ME

- Entirely self-configured personal website built and deployed with React and Firebase Hosting
- Hosts a wide variety of self-developed web applications and personal works

SONAR ALCHEMY

- San-Francisco-based drums-and-horns busking duo; active since 2017, well-liked by locals

YOUTUBE CHANNEL - RAID

- Home to original music, fan-made musical arrangements, music tutorials, and cinematic short-form video content; has accumulated hundreds of thousands of views
- Content piece "RULE YOURSELF - C9 Mango" and video series "The Poor Falco's Guide to Lasers" acclaimed by the Super Smash Bros. Melee community

HOBBIES

Music, weightlifting, cooking, programming