

Raymond Louis Chen

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EDUCATION

University of California, Davis - Davis, CA

Expected June 2022

Bachelor of Science, Biochemistry and Molecular Biology

Minor, Computer Science

G.P.A. 3.735

EXPERIENCE

UNDERGRADUATE RESEARCHER

Janata Lab

January 2021 – June 2021

- Qualitatively labeled and manually processed hundreds of music-evoked memories from test subjects to advance data analysis efforts for the *Jingle Project* music neuroscience study
- Took the initiative to update "The Golden Standard of Annotations," the Janata Lab's out-of-date music-evoked memory labeling and annotating guide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
- Led Physics 7 students through the new, challenging environment posed by remote learning
- Facilitated 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 on protein complexes involved in double-strand break repair during meiotic recombination in *Saccharomyces cerevisiae*
- Dissected hundreds of yeast tetrads, collected statistical data on strain viability, and maintained dozens of yeast strains
- Prepared and presented an exhibit, "Yeast Meiosis for the Layperson," for University of California, Davis funding partners 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
- The ability to pinpoint typographical errors wherever they may appear
- A powerful capacity for adaptation and quickly learning new things

BIOTECHNOLOGY AND BIOLOGY LAB TECHNIQUES

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

COMPUTER PROGRAMMING

- Experience coding/scripting in Java, C, C++, Python, R, Lua, JavaScript, bash, and PowerShell
- Experience using bioinformatics tools, including bowtie2, trimmomatic, samtools, and FASTQC
- Experience with 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
- Experience 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 including Spotify and YouTube Music

WORKPLACE AND ACADEMIC SOFTWARE

- Experience 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 AND WORKS

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

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 Mang0" and video series "The Poor Falco's Guide to Lasers" acclaimed by the Super Smash Bros. Melee community

SONAR ALCHEMY

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

HOBBIES

Music, weightlifting, cooking, programming