Emil De Guzman

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PROGRAMMING EXPERIENCE & PROJECTS

Mission Bit, San Francisco CA January 2024 - present
Lead Web Development Instructor
- Led dynamic in-person web development instruction to under-resourced high school students in San Francisco, fostering digital literacy and empowerment while adeptly tailoring curriculum in real-time to meet evolving needs
- Mentored students in crafting projects aimed at positive community impact, fostering creativity and problem-solving skills

Independent Study January 2020 - present
- Currently working through Angela Yu's Web Development Bootcamp learning HTML, CSS, Javascript, Node.js, React, PostgreSQL, Web3 and DApps
- Learning algorithms via independent research and websites like LeetCode in order to advance problem-solving proficiency
- Developed "Bog Blog," a full-stack web application using Express, EJS, and Node.js to enable users to create, view, and search blog posts about foraging in bogs; utilized Nodemon for streamlined development

Freelance January 2024 - present
- Developed a responsive website to showcase the work of a local Bay Area artist, enhancing their online presence and portfolio
- Collaborated with client to gather requirements, provide progress updates, and deliver tailored web solutions on time

Recurse Center, New York NY January 2022 - April 2022
Participant
- Participated in a selective, self-directed, community-driven educational retreat for software engineers
- Hosted onboarding sessions and facilitated group programming exercises, fixed bugs in the Recurse presentation web app
- Dryclo Developed Dry Clothes Bot, an automated application using weather and messaging APIs to notify users of impending rain and weather conditions. Built with Python, this tool allows users to prevent their outdoor clothes from getting wet

PROFESSIONAL EXPERIENCE

James Denman Middle School San Francisco Unified School District, San Francisco January 2024 - June 2024
Substitute Moderate Severe Special Education Teacher
- Organized and led group activities that promote teamwork, cooperation, and the development of life skills, enriching the quality of life for students and empowering them to live independently
- Facilitated social and emotional learning by teaching coping strategies, communication skills, and appropriate social interactions

Feather River Resource Conservation District, Quincy CA March 2021 - November 2021
Forestry Technician
- Supervised a team of 25 contractors to plant 200,000 native sapling trees restoring 900 acres of a burned forest
- Conducted comprehensive surveys, assessing federally endangered invertebrates, amphibians, mammals, birds, and plants
- Utilized drone technology to gather data on the damage to Plumas National Forest following the catastrophic 2021 Dixie Fire, facilitating informed decision-making for future restoration strategies

Center for Watershed Sciences, Davis CA April 2018 - October 2018
Research Assistant
- Visualized, analyzed, and modeled extensive aquatic data using the R programming language to support research on the impact of hydrologic variability on water quality and aquatic ecosystems
- Authored technical reports detailing data collection and modeling methodologies for project managers

EDUCATION

University of California, Davis CA
Bachelors of Science Wildlife, Fish, and Conservation Biology