Emil De Guzman

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PROGRAMMING EXPERIENCE & PROJECTS

Mission Bit, San Francisco CA   January 2024 - Present
Lead Web Development Instructor
- Facilitated an in-person curriculum focused on teaching HTML, CSS, and JavaScript to San Francisco's under-resourced high schools with the goal of bridging the digital divide
- Mentored students in developing their capstone projects focused on creating solutions that positively impact their community

Recurse Center, New York NY   January 2022 - Present
Participant
- Participated in a selective, self-directed, community-driven educational retreat for software engineers
- Created Dryclo, fixed bugs in the Recurse presentation web app, and collaborated with many experienced developers
- Hosted onboarding sessions for new members and facilitated group programming exercises using Conway's Game of Life
- **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

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

PROFESSIONAL EXPERIENCE

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

California Institute of Environmental Studies, Ventura CA   February 2020 - February 2021
Restoration Biological Science Technician
- Accomplished the surveying and elimination of over 12,000 acres of invasive plant species in the Channel Islands National Park
- Proficiently employed advanced technology, including GPS units and ArcGIS Collector, for precise data collection and mapping

SABBATICAL

Taipei Economic and Cultural Office Ministry of Education, Taiwan   November 2022 - September 2023
- Awarded the Huayu Enrichment Scholarship for advanced-level Mandarin studies at National Taiwan Normal University
- Enrolled in courses covering interpretation, translation, and academic oral proficiency, focusing on presentation and analysis

EDUCATION

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

SKILLS & INTERESTS

Programming Languages: Proficient in Python, JavaScript, and R. Familiar with Node.js, React, HTML, CSS, JSON, XML
Software Tools: Skilled in Git, Github, VSCode, ArcPro, ArcGIS Online
Interests: Passionate about learning languages (I speak Mandarin Chinese, Spanish, and Tagalog), playing mandolin, and running