Emil De Guzman

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PROGRAMMING EXPERIENCE & PROJECTS

Recurse Center   January 2022 - March 2022
Participant
- Participated in a selective, self-directed, community-driven educational retreat for software engineers.
- Created Dry Clothes Bot and fixed bugs in the Recurse presentation web app while collaborating with experienced programmers.
- Hosted onboarding sessions for new members and facilitated group programming exercises using Conway's Game of Life.

[Dry Clothes Bot](#)   July 2023 - October 2023
- 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.

[Etch A Sketch](#)   July 2022 - August 2022
- Created a browser-based version of 'Etch A Sketch' using JavaScript, HTML, and CSS. The project features a dynamic DOM tree, optimized functions, responsive color schemes, and an improved user interface through button integration.

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 teams of up to 25 individuals to plant 200,000 native sapling trees, restoring 900 acres of a burned forest.
- Conducted comprehensive pre-construction surveys, assessing federally endangered invertebrates, amphibians, mammals, birds, and plants, ensuring the projects' compliance with conservation regulations.
- Pioneered the use of drone technology, gathering data on Plumas National Forest's damage following the catastrophic 2021 Dixie Fire, aiding 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, Taipei, 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 and JavaScript, with substantial experience in R.
Software Tools: Skilled in Git, Github, VSCode, and Microsoft Office.
Interests: Passionate about technology, music creation, finance, exploring foreign languages, and maintaining an active lifestyle