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O'Connor, James

[web developer, network administrator, scuba instructor]

Profile:

Full-Stack Web Developer, Network, and Linux Administrator with substantial experience as an educator and passionate curiosity for all facets of digital technology from the basics of circuits and drivers to the intangibles of speculative futures.

US citizen with long-term overseas experience both in developed and under-developed countries and sincere enthusiasm for rapidly adapting and integrating within unfamiliar environments.

Core Expertise:

Web: React, NodeJS, Firebase, GraphQL, MongoDB, Flask, Sass

SysAdmin: CCNA, pfSense, VirtualBox, openWRT, LDAP, FOG

Passion Projects: Blender, 3D Printing & Electronics/IoT enthusiast

Recent Experience:

2018-Present: Director of Technology & Programming Teacher

Xavier High School, Chuuk, Federated States of Micronesia

Completed design & installation of campus network running entirely on FOSS, supporting 200+ users (including 24/7 resident faculty & boarding students), 40+ desktop workstations, LDAP based AAA services, Moodle LMS, LAN accessible media server, network security cameras, and configured for remote management, automated error handling and failover connection. Required coordination with national telco, as well as fundraising efforts to secure significant grant and donor funding.

Additional projects have included a rebuilt school website, GSuite and domain administration, and the development and delivery of a programming elective for 11th and 12th graders built around Python and the Shell run on a purpose-designed Raspberry Pi lab cluster.

Supervisor: Dennis Baker, SJ, President, Xavier High School, FSM

✉ baker@xaviermicronesia.org ☎ +1.212.202.8998

Certifications:

Cisco Certified Network Associate (June 2020)

Professional Association of Diving Instructors,

↳ Instructor Development Course Staff Instructor

Education:

The Iron Yard Academy,

↳ iOS Developer Boot Camp

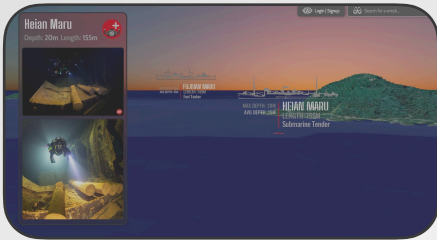
University of Cambridge,

↳ PhD Candidate, History of Art & Architecture

University of St. Andrews,

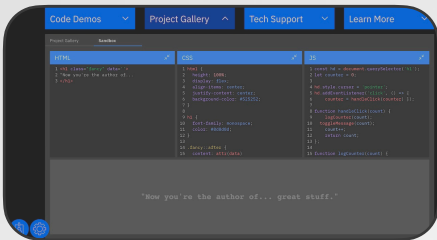
↳ MA(First Class Honours) in Art History

Chuuk Wreck Map



3D map & photo-sharing app, live & built to scale to additional dive destinations. Mapbox & Firebase.

XHS eLearning Portal



Prototype interface for tech curriculum & 1:1 device support. React, Apollo-GraphQL, Auth0.

International Work Experience

