Clifford Lezark

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HONORS AND EDUCATION

Eckerd College, St. Petersburg, FL   05/ 2019
Bachelor of Science with Concentration in Computer Science & Oceanography

hackNY, New York, NY   05/ 2019
Summer 2019 fellow, *one of twenty chosen for nationally-renowned fellowship program*

EXPERIENCE

Software Engineer   07/2021 - Present
Florida Fish and Wildlife Research Institute, St. Petersburg, FL
- Tapped as lead developer of FWRI's MIPS, a greenfield project handed down from the federal government to the institute.
- Directed the institute's modernization effort towards .NET Core tech stacks and open-source technologies.
- Refactored institute applications for our shift from on-premise hosting to Azure Government Cloud Community.
- Developed the Azure DevOps pipelines now in-place across the FWC.

Director of Admissions   09/2019 - 08/2021
hackNY, New York, NY
- Directed the assessment of all applications to the 2020 fellowship program.
- Carried out technical interviews with prospective fellowship candidates.
- Assisted the executive director in pairing fellows with NYC startups.
- Facilitated interview prep sessions with incoming fellows.

Software Engineering Intern   06/2019 - 08/2019
Eight Sleep, New York, NY
- Collaborated with the hardware and software teams to develop software solutions for challenges in manufacturing, quality assurance, and UX.
- Activated unused Bluetooth radio included in over 20,000 devices.
- Produced suite of gcc-based tests for future feature development.
- Contributed to the deployment of new features and solutions.

Software Engineering Intern   06/2018 - 08/2018
Simprints, New York, NY
- Customized Bluetooth 4.0-ready firmware for Simprints' core device, the Vero fingerprint scanner.
- Orchestrated a solution using Google's 'Web Bluetooth' library that eliminated the need for OS-specific desktop clients to connect to scanners.
- Contributed to the prototype of a browser-based desktop client

Bioinformatics Research Assistant   02/2017 - 12/2017
Eckerd College & Woods Hole, St. Petersburg, FL
- Conducted sequence analysis and data visualization for a study of population connectivity in the Sargasso Sea.
- Leveraged bioinformatics software to illustrate haplotype networks of DNA barcode in *Litiopa melanostoma*.
- Generated custom graphic representations of speciation and genetic drift using self-developed visualization libraries.

COMPETENCIES

Languages
Javascript · C# · C++ · Java
Python · R · SQL
HTML5 · CSS · PHP

Tools and Libraries
Vue.JS · Blazor · Laravel
Node.JS · Nginx · Flask
CosmoDB · SQL Server · Neo4j
git · bash · zsh · fish · tmux

Skills
- Web application development
- Firmware revision
- Esoteric library integration
- Data visualization
- Server management
- IoT management
- Hardware hacking
- Bug hunting
- Quick learning

Recent Projects

Coral Disturbance Response Monitoring
Moving this program into tailored .NET web apps and dashboards allowed the Fish and Wildlife Research Institute to accelerate the largest coral survey on the planet to multiple times a year and enable scientists to make actionable decisions towards reef conservation on a monthly basis.

FWRI MIPS
A first-of-its-kind web application at the Fish and Wildlife Research Institute designed for interagency collaboration, MIPS enables scientists to identify manatee individuals across their lifespan and track their movements along the coasts of the United States. MIPS is built on top of a 50 year old database of manatee sighting and classification data.