Omi Johnson

they/them/theirs | Boston, MA
+1(413) 325-3130 | johnson.omi@northeastern.edu
linkedin.com/in/omi-johnson | github.com/oj713
Availability: January – August 2024

EDUCATION

Northeastern University, Boston, MA   September 2020 – May 2025
Khoury College of Computer Sciences
Candidate for Bachelor of Science in Computer Science and Environmental Studies, Minor in Interaction Design

Related Courses:	Foundations of Software Engineering (Graduate)	Web Development (Graduate)	Database Management Systems (Graduate)	Geographic Information Systems (Graduate)	Algorithms and Data	Object Oriented Design
Honors:	**GPA: 3.95/4.0**	Honors Scholarship	Dean's List
Activities:	Lead TA, CS 1210: Professional Development for Co-op (All Sections)

TECHNICAL KNOWLEDGE

Languages:	R	HTML/CSS/JavaScript	D	Java	Python	SQL	C++	Swift
Frameworks/Libraries:	Tidymodels	React.js	Node.js	Redux	Mongoose	Bootstrap
Databases/Software:	Git/GitHub	MySQL	MongoDB	ArcGIS	Figma	Adobe Suite
IDEs:	Microsoft Visual Studio	RStudio	XCode	Eclipse	JetBrains Suite
Systems:	MacOS	Windows	Ubuntu Linux

EXPERIENCE

Bigelow Laboratory for Ocean Sciences, East Boothbay, ME   February 2022 – Present
Research Technician Co-op, Research Technician

- Conducting research forecasting North Atlantic Right Whale habitats for future climate scenarios in R
- Transformed and integrated zooplankton and environmental datasets in 4 file formats to derive input modeling datasets for 2 prey species with 20K data points each
- Built 100+ experimental prey distribution models using Tidymodels in R with 4+ ML engines such as boosted regression trees (BRTs), neural networks, and generalized linear models, achieving AUCs > 90%
- Authoring research paper on findings using original analyses and visualizations of final BRT ensemble models, whose results can inform future whale survey effort and modeling
- Investigated Tidymodels modeling package for general lab use and created RMarkdown website and GitHub demo repository with comprehensive tutorials

Ginger Labs, San Francisco, CA   January – August 2023
Quality Assurance Engineer Co-op

- Quality tested beta versions for top-rated iOS note-taking app Notability with 10+ million active users
- Performed experimental and regression tests on Swift and Objective-C based app using TestFlight, TestRail, and XCode simulators
- Co-led testing effort for massive app redesign project, personally catching 200+ issues (50+ release blockers) and processing external and internal feedback
- Wrote comprehensive bug and improvement tickets on GitHub with clear reproduction steps
- Managed 3000+ beta testers and reported feedback via beta email address and App Store Connect
- Coordinated with product, engineering, design, and support teams on issue details, prioritization, PR testing, design feedback, and user workarounds

PROJECTS

Parkour: National Parks Social Web Application   July – August 2023

- Developed a social web application for hikers supporting login, profiles, posts, park information, and search
- Translated Figma mockups into size-responsive SPA using Redux, React.js, HTML, and CSS
- Implemented three user types (Park, Ranger, Hiker) with different privileges to create, like, and delete posts
- Hosted user and post data on MongoDB database accessed via Node.js API
- Allowed search of local user profiles and external park information served by National Parks Service API

INTERESTS

Web Development | Physical Oceanography | Data Analysis | Rock Climbing | Longboarding | Fiber Arts