John (Jack) Hale

www.linkedin.com/in/jackhale23

12 Hesketh Drive · Menlo Park, CA. 94025
(650) 863-7050 · jackhale@gmail.com

CAREER PROFILE

Software engineer and accomplished leader, experienced in solving complex problems collaboratively. Strong foundation in algorithms, data structures, and software design with a track record of consistently meeting challenging project deadlines in fast-paced, agile environments. Committed to delivering excellent results, while working to create an inclusive, growth-oriented atmosphere.

Language Fluency: Java, C, C++, Bash **Other Technologies**: Git, React, REST, Spring
Databases: MySQL, MariaDB **Operating Systems:** Linux, macOS, Windows

EDUCATION

BAYLOR UNIVERSITY, Waco, TX – Bachelor of Science in Computer Science **August 2019 - May 2023**
- Experience leading multiple development teams in academia using agile methodologies
- Relevant Coursework: Data Structures and Algorithms, Database Design, Data Communications, Operating Systems, Computer Architecture, and Cybersecurity

EXPERIENCE

BAYLOR UNIVERSITY, Waco, TX **January - May 2023**
Oracle Project - Undergraduate Research Assistant
- Created language-agnostic microservice intermediate representations with a team at Oracle by using GraalVM, Graal, Native Image, and Graal-Prophet
- Implemented static bytecode analysis to allow for anti-pattern detection and cyclic dependency discovery within microservice intermediate representations
- Developed a visualization tool to effectively showcase service dependency graphs and system context insights derived from the language-agnostic microservice intermediate representations
- Wrote *SAR for Microservice Systems Using GraalVM Native Image* which was submitted to ASE 2023

OMNI INTERACTIONS, Denver, CO **May - August 2022**
Software Engineering Intern
Omni is a business process outsourcer that connects remote workers with leading brands to deliver cost-effective and reliable virtual customer experience solutions
- Processed flows including UX interactions to identify bottlenecks and further optimize the product
- Presented analytics and potential solutions to management in a clear digestible manner
- Focused on ease of use, clarity, and a streamlined experience for applicants to increase yield

PROJECTS

SYSTEM CYBERSECURITY - Team Lead **January - May 2023**
- Led team of undergraduates for a semester in securing a Windows Server 2008 and Metasploitable based system
- Utilized pfSense and ModSec for firewalls, Snort for IDS/IPS, Wazuh for centralized logging, and Kali for pen-testing

WACODE - Winner of Experienced Bracket **April 2023**
- Developed an app to generate visualizations of projected sea level rise in user-selected cities based on their carbon habits using a variety of accepted prediction standards (RCPs)
- Employed a serverless approach using React, MaterialUI for styling, and Firebase for the backend

ROAD TRIP PLANNER - Winner of "Best Project" **December 2022**
- Created an app through collaboration with Credera Consulting, who served as Scrum Masters, to allow for planning, recording, and sharing of road trips which won best project in my Software Engineering II class
- Utilized Node.js, MUI for styling, Java for backend, GitLab and JUnit for CI/CD, and GCP/Docker for deployment

ADDITIONAL INFORMATION
- Enjoys community service, story-based video games, Labradoodles, traveling, and hiking