KYLE LIEBLER

Miami, FL | 954-536-0075 | liebler@umich.edu | liebler.xyz

WORK EXPERIENCE

CISCO San Francisco, CA (Remote)
Software Engineer (Intern) May – Aug 2022
- Strengthened the backend development of core Webex services pertaining to meeting orchestration and processing, handling over 8 billion monthly calls. Involved working on REST APIs in Java with a microservice architecture.
- Redesigned and deployed an automatic OpenAPI 3.0 documentation generator for the core calling side of the Webex backend per referral from a previous team using Java, Spring, Spring Boot, Maven, Docker, and Jenkins Pipeline.

CISCO San Francisco, CA (Remote)
Software Engineer (Intern) May – Aug 2021
- Improved on Webex Assistant (a conversational AI voice assistant) and Webex (a collaboration solution).
- Collaborated on the creation of Message Highlights, a prioritized message service, using tools such as Apache Kafka to process hundreds of millions of messages daily.
- Pioneered an automatic OpenAPI 3.0 documentation generator with Jenkins Pipeline code running on hundreds of internal Webex repositories. Also built a self-updating web page to host the documentation.

CISCO San Francisco, CA (Remote)
Software Engineer (Intern) May – Aug 2020
- Aided the overhaul of a large scale back-end system with a multitude of databases (PostgreSQL, Cassandra, SQLite, Elasticsearch, Redis) and microservices in charge of storing and processing all user and organization data for Webex Assistant.
- Implemented a multi-stage integration testing framework relying on Docker and Pytest to enhance focus on specific pairs and triplets of services, including end-to-end evaluations involving 10+ components with complex interactions.
- Achieved 1st place in an internal hackathon revolving around adding new skills to the assistant. Utilized MindMeld (a Cisco acquired conversational AI machine learning framework), and IFTTT (a platform for controlling IoT devices) to create a contactless office experience for users in the wake of COVID-19.

RHE LABORATORY U-M Ann Arbor, MI
Researcher Sep 2019 – Aug 2020
- Launched proprietary software using Wi-Fi signals to simulate ionizing radiation sources, resulting in a presentation to thousands at WM Symposia 2020. Data collection facilitated through a mobile application programmed in Flutter (Dart) and Java.
- Investigated and introduced novel and existing navigational path generation and radiation source localization algorithms using Matlab and Python, yielding two conference presentations and a publication.

DATAHUB Chicago, IL (Remote)
DevOps Engineer (Intern) Nov 2019 – May 2020
- Certified for Red Hat Enterprise Linux 7 and OpenShift 4. Role involves integrating customers' workflow to hybrid cloud infrastructure with OpenShift (a Kubernetes centered unified DevOps platform).

ENTREPIDUS Miami, FL
Software Engineer (Intern) Jun - Aug 2017
- Designed a full-stack client data analysis system using HTML5, CSS3, JavaScript, Node.js, and MySQL to interact with Atlassian JIRA's RESTful services.

PUBLICATIONS & CONFERENCES

Radiation Source Mapping and Navigational Path Determinations for Radiation Source Searches Jul 2021
Presented at Health Physics Society 66th Annual Meeting, WPM-C.2.

Comparison of Common Methods for Single Detector Radiation Source Localization Jul 2021
Presented at Health Physics Society 66th Annual Meeting, THAM-C.12.

Simulations and Experimental Verifications of an Algorithm for Radiation Source Mapping Jun 2021
and Navigational Path Generation
Published in Health Physics 120(6): p 648-660, June 2021.

Radiation Simulation using Wi-Fi Signal Strength and Frequency Mar 2020
Presented at WM Symposia 2020.

EDUCATION

UNIVERSITY OF MICHIGAN Ann Arbor, MI
Master of Science in Engineering Jan 2022 – Dec 2022
Electrical & Computer Engineering; Concentration in Computer Vision; GPA: 3.81

UNIVERSITY OF MICHIGAN Ann Arbor, MI
Bachelor of Science in Engineering Sep 2018 - Dec 2021
Electrical Engineering; Concentration in Computer Science; GPA: 3.44

BROWARD COLLEGE Davie, FL
Associate of Arts Aug 2016 - May 2018
General Studies; Full-time dual enrollment program during high school; GPA: 4.00

ADDITIONAL

Technical Skills: C++, Python, Java, Docker, Microservices, Matlab, Integration Testing, Linux & Shell Scripting, Backend System Design, Digital Signal Processing, Machine Learning, Computer Vision, Agile, REST APIs
Languages: Fluent in English, Conversational in Spanish