KYLE LIEBLER

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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.
- 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 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   Class of 2022
  Electrical & Computer Engineering; Concentration in Computer Vision; GPA: 3.81

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

BROWARD COLLEGE   Davie, FL
Associate of Arts   Class of 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

Languages: Fluent in English, Conversational in Spanish