

Kyle Liebler

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MS Student | University of Michigan

New BSE graduate and incoming master's student at the University of Michigan. Currently seeking a summer internship.

Skills

C++
Docker
Integration Testing

Python
Microservices
Linux & Shell Scripting

Java
Matlab
Backend System Design

Experience

SOFTWARE ENGINEER (Intern)

May – Aug 2020 & 2021

Cisco, San Francisco, CA (Remote due to COVID-19)

- Worked on Webex Assistant (a conversational AI voice assistant) and Webex (a collaboration solution).
- Contributed to Message Highlights, a prioritized message service, utilizing tools such as Apache Kafka.
- Assisted in developing 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.
- Developed a multi-stage integration testing framework relying on Docker and Pytest to increase focus on specific pairs and triplets of services as well as evaluating the whole system.
- Created an automatic OpenAPI 3.0 documentation generator with Jenkins Pipeline code running on hundreds of internal Webex repositories. Also built a self-updating webpage to host the documentation.
- Received 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 touchless office experience for users in the wake of COVID-19.

DEVOPS ENGINEER (Intern)

Nov 2019 – Aug 2020

DataHub, Chicago, IL (Remote)

- 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).

RESEARCHER

Sep 2019 – Present

RHE Lab U-M, Ann Arbor, MI

- Role involves software development using Wi-Fi signals in order to simulate ionized radiation sources and map using proprietary algorithms. Mobile application programming in Flutter (Dart). Android specific development done in Java. Algorithms implemented in Matlab and Python.

SOFTWARE ENGINEER (Intern)

Jun – Aug 2017

Entrepidus, Miami, FL

- Tasked with creating a full-stack client data analysis system using HTML5, CSS3, JavaScript, Node.js, and MySQL to interact with Atlassian JIRA's RESTful services.

MISSIONARY

Jun 2015 – July 2018

Casa Hogar, Mexico

Restoration Atl, Atlanta, GA

- Cared for orphans and participated in construction projects at Casa Hogar Orphanage in Mexico.
- Cooked, cleaned, counseled, and provided shelter for battered women and children in the Atlanta area.

Publications & Presentations

Radiation Source Localization

Jul 2021

Comparison of Common Methods for Single Detector Radiation Source Localization. Presented at Health Physics Society, July 2021.

Navigational Path Generation

Jun 2021

Simulations and Experimental Verifications of an Algorithm for Radiation Source Mapping and Navigational Path Generation. Published in Health Physics Journal, June 2021.

Radiation Simulation

Mar 2020

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

Education

Master of Science (Incoming)

Class of 2022

University of Michigan

Concentration in computer vision. Expected graduation in December of 2022.

Bachelor of Science in Engineering (In Progress)

Class of 2021

University of Michigan

Electrical engineering major with a concentration in computer science. Currently at a 3.5 GPA.

Associate of Arts

Class of 2018

Broward Collage

Participated in a full-time dual enrollment program during high school where all courses were taken at Broward College and received an AA degree with a 4.0 GPA.