

# Tyler Lubeck

SOFTWARE ENGINEER · SITE RELIABILITY ENGINEER

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## Experience

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### SurveyMonkey, Transit Team

San Mateo, California

SOFTWARE ENGINEER IV, TEAM LEAD

Mar. 2018 - Present

- Maintain and update a Hashicorp Consul cluster spanning eight datacenters
- Maintain multiple RabbitMQ clusters handling thousands of messages per second
- Implement a Kafka cluster capable of routing tens of thousands of messages per second, and plan and perform a migration from RabbitMQ to Kafka
- Researched and implemented the 'next generation of caching', involving a custom caching library with support for connection pooling and a new TWEMProxy installation
- Work with engineering teams to profile and optimize the performance of their applications

### SurveyMonkey, SRE Team

San Mateo, California

SOFTWARE ENGINEER III

Jan. 2017 - Mar. 2018

- Implemented and maintained core routing infrastructure for all of SurveyMonkey's web traffic in both NGINX+ and F5
- Worked with Security and Engineering to define and implement development and deployment processes to meet PCI requirements
- Assisted in buildout of docker and ansible based automated deployment system with support for multiple datacenters
- Team Lead for the infrastructure components of building out, and failing over to, a new datacenter

### SurveyMonkey, User Team

Palo Alto, California

SOFTWARE ENGINEER I, SOFTWARE ENGINEER II

Aug. 2015 - Jan. 2017

- Implemented and maintained the development stack used across the engineering organization
- Implemented features across the application stack, ranging from MSSQL stored procedures to Python and React based applications

### Microsoft, OneDrive for Business Team

Redmond, Washington

SOFTWARE DEVELOPMENT ENGINEER INTERN

May 2014 - Aug. 2014

- Created an API in Sharepoint's Client Side Object Model to enable manipulation of files and folders from both C# and Javascript
- Built a modular file tree control in Javascript with support for asynchronous data loading
- Gained experience working within a large codebase and complex build system

### Tufts University

Medford, Massachusetts

TEACHING FELLOW, CO-INSTRUCTOR: WEB ENGINEERING

Sep. 2012 - May 2015

- Authored curriculum to teach fundamental web engineering to undergraduate students
- Graded projects and ran office hours for courses ranging from 50 to 300 students
- Supervised a team of 5 teaching assistants

### Accusoft, Imaging SDK Team

Tampa, Florida

SOFTWARE DEVELOPMENT INTERN

May 2012 - Aug. 2012

- Upgraded sample code projects in VB6, C++, and C#, adding new product functionality and fixing defects
- Wrote Python scripts for updating Microsoft Visual Studio project files to new versions and for verifying and updating source code copyright markings
- Authored whitepaper and accompanying application integrating Barcode Xpress SDK with ImageGear SDK Suite

## Education

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### Tufts University

Medford, Massachusetts

B.S. IN COMPUTER SCIENCE

August 2011 - May 2015

## Publications

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### Device-agnostic Wi-Fi fingerprint positioning for consumer applications

IEEE

PERSONAL, INDOOR AND MOBILE RADIO COMMUNICATIONS (PIMRC)

Aug. 2015

- Researched the use of Wi-Fi fingerprints to determine the location of a device indoors
- Achieved accuracy within three meters
- Paper available at <https://ieeexplore.ieee.org/document/7343660>