

Yusuf Bagha

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Software Engineer

- I'm a full stack software engineer based out of New York. I have experience developing scalable, maintainable, and secure Web applications. From architectural design, to frontend development, backend development, and devops.

Skills & Technologies

- Python, Django, Flask, JavaScript/ES6, NodeJS, Express, MeteorJS, PostgreSQL, and MongoDB
- React, Redux, JSX, Angular, HTML5, CSS3, SASS, Cordova, AWS, Travis, Git, Docker, and Kubernetes

Experience

Pymetrics, Software Engineer

Feb 2019 - July 2020

- Engineered lightweight, efficient, and scalable network speed test to check if user meets minimum requirements
- Studied Django change logs and manually modified 10K+ lines of code to incrementally update from v1.7 to v2.1
- Designed and implemented secure video upload to S3 directly from the frontend. 50K videos uploaded to date
- Increased application scalability by developing custom load testing script and identifying API inefficiencies

UDog, Engineering Manager

Aug 2018 - Jan 2019

- Reduced unnecessary spending by engineering a Node microservice that logs and reports walker activity in Mongo
- Expedited dog walker hiring by developing internal automation software for human resources to match growth
- Faced critical server failure during first week and manually restored services without customer or revenue loss
- Refactored application structure and increased consumer spending by implementing future dog walk bookings
- Recovered application source code after accidental data loss and swiftly restored Android app to Play Store

SandBox Innovations, Full Stack Software Developer

June 2018 - Aug 2018

- Engineered custom administrative panel with varying functionalities for teachers, principals, and district heads
- Developed assignment based online homework platform with automated checks and reporting
- Managed engineering team and kept product development on track with business pivots
- Built and integrated a real time Node chat application into existing e-learning platform

Fresh Digital Group, Software Developer Intern

Feb 2018 - Feb 2018

- Researched technical viability and developed prototypes for Alexa and Google Assistant flight skills
- Collaborated with senior engineer to improve performance by migrating website from WP to React
- Accelerated application development cycles by switching to cross platform voice framework Jovo
- Debugged featured Alexa skill with Amazon's head voice engineer and deployed realtime fixes

SandBox Innovations, Software Developer Intern

July 2017 - Sept 2017

SConfess, Cofounder / Full Stack Software Developer

May 2016 - July 2016

- Utilized a mobile first approach to develop an app interface that automatically adapts to different devices
- Deployed realtime code fixes for app breaking bugs discovered by users without service interruption
- Engineered application architecture that anonymized server-client communication using Express
- Vertically scaled Node application to handle 7000 users and debugged Mongo bottlenecks

SpaceTrades, Cofounder / Front End Software Developer

Sept 2015 - May 2016

- Pushed real time updates from server to client with asynchronous JavaScript and restful design
- Requested REST endpoints and programmed DOM manipulations based on server response
- Developed custom user interface that employs flexible layout and reactive templating

TrackPointMedia, Front End Developer Intern

June 2014 - July 2014

- Implemented custom styles on top of prefabricated theme and wrote JavaScript to create animations
- Worked with founders to design and develop a mobile friendly promotional website in WordPress
- Modified PHP source code to add analytical functionalities and disable unwanted plugin behavior