

# RAY BLANDFORD

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## SKILLS

### Frontend

React  
Redux  
Jest / Enzyme  
React Testing Library  
JavaScript (ES6+)  
TypeScript  
HTML5 / CSS3  
SASS / Less  
Apollo / GraphQL  
WebPack

### Backend

Node.JS / Express  
MongoDB / MySQL  
Nginx  
AWS / Azure

### Other

OO Programming  
Functional Programming  
Responsive Design  
Accessibility  
Performance Auditing  
Java / C#  
Python

## EDUCATION

### Virginia Tech

B.S. Business IT  
Computer Science Minor  
International Business Minor  
2013 – 2017

### Semester at Sea

Studied International Business  
in 11 countries throughout Asia,  
Africa, and Europe.  
2016

## EXPERIENCE

### QUALCAT

Technical Co-founder | Sept 2019 – July 2020

- Launched MVP as full-stack application which decreased the time to transcribe audio by as much as 74%.
- Secured application to guard against OWASP Top 10 vulnerabilities.
- Improved the stability and performance of large file uploads through resumable, multipart upload streams to S3.
- Normalized Redux state to cut unnecessary re-renders using redux-toolkit.
- Developed automated test, build, and deploy pipeline to cut release times from 30 mins to less than one.
- Led the charge in using Figma to improve user feedback loop with high fidelity prototypes, doubling average feature velocity.
- Marketed to and converted 12 organizations into private beta users.

Tools: React, Redux, Node, Express, MongoDB, Figma, Jest, Selenium, AWS

### MICROSOFT

Front End Engineer | March 2019 – March 2020

- Implemented service worker to precache important resources and reduce second visit page load times on slow 3G by 491%, from 20.1s to 3.4s.
- Provided users with ability to refresh cache through exposing the SW lifecycle to appropriate components using the React Context API.
- Implemented algorithm to dynamically place components in a grid based on a user selected layout and updated corresponding JSON API.

Tools: React, Redux, Typescript, Figma, Jest, Lighthouse, Azure Pipelines

Technical Program Manager | April 2018 – March 2019

- Developed data pipeline that accelerated dashboard refresh time from 2 weeks to seconds.
- Increased automation of privacy controls to cut resource overhead by 52%.
- Launched bi-weekly learning group for university hires interested in AI / ML

Tools: Python, SQL, Azure, PowerBI

### APPIAN

Front End Engineer, Intern | March 2019 – March 2020

- Reengineered existing native mobile app features in React Native to decrease average feature velocity from a month to under a week.

Tools: React Native, Redux, Android, Java

Android Software Engineer, Intern | April 2018 – March 2019

- Reduced the time between release to deployment of app versions by developing an enterprise upgrade system driven by push notifications, contributing to increased end-user adoption.

Tools: Android, Java, Gradle, Groovy

## PROJECTS

Microsoft OneWeek Hackathon Winner | July 2018

- Developed system to monitor plastic flowing from river systems into the ocean; architected with cost, scalability and portability in mind.
- Voted best of hundreds of projects and won \$5000 for partner non-profit.

Google VR Challenge Winner | March 2017

- Created 3D Photo Viewing experience for Android with Unity.
- Designed intuitive animation to prevent VR motion sickness.

Appian Intern Hackathon Winner | July 2016

- With 5 other interns, conceptualized, constructed, and presented a full-stack solution to comparing process models
- Voted best of 5 teams by Appian's engineering staff and executive leadership.