

# JOSHUA COCKRELL

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## EXPERIENCE

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### Twitter – iOS Software Engineer Intern

Fall 2017 | CA

- Removed the 20-character display name limit from the Twitter iPhone app, impacting 500,000+ users in under 1 week
- Rewrote the Twitter iOS share extension UI (which is used 700,000 times per day) to allow for 280 character tweets
- Developed code to enable 20+ keyboard shortcuts for the Twitter iPad app using Objective-C and Swift

### Adobe – React Software Engineer Intern

Summer 2017 | UT

- Developed the first map visualization tool for Adobe Analytics Workspace using JavaScript, React, and Mapbox APIs
- Implemented a modified clustering algorithm capable of loading and rendering billions of visible location data points
- Released project to dozens of Fortune 500 customers

### Microsoft – Software Engineer Intern

Summer 2016 | WA

- Built a diagnosis tool in C# for Fortune 500 companies to troubleshoot their Windows Server deployments
- Reduced time to diagnose customers' servers from 1½ days to 15 minutes, saving \$40,000/year in support costs
- Completed and shipped product 2 weeks ahead of schedule

### Microsoft – Explorer Software Engineer Intern

Summer 2015 | WA

- Constructed a website for Microsoft management to track Edge user engagement worldwide
- Decreased management's feedback loop from 2 days down to a 4 second webpage reload using a custom SQL cache
- Increased web page query speed 2x by creating a dynamic SQL query system using C#, Linq, and JavaScript

## EDUCATION

### Brigham Young University – Class of 2018

- B.S. Computer Science – 3.6/4.0 GPA
- Honors Program, Business Minor
- National Honor Society (top 20% of class)

## SOFTWARE SKILLS

- **Proficient in:** Python, JavaScript, Node.js, HTML5, CSS, C#
- **Worked in:** Swift, SQL, React.js, Amazon Web Services, C++, Java, Asp.net, Git, RESTful and TCP web services
- **Interests:** Graphics, Mobile Dev, AI, UI Research

## PROJECTS/HACKATHONS

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### Seattle Children's Hospital Tonsillectomy App – Microsoft Hackathon

Summer 2016 | WA

- Created a native iOS app to help children recover from tonsillectomy surgery by providing a recovery timeline
- Featured on the Seattle Times Business Paper front page for this project

### City 311 iOS App – BYU Open Source Lab

Summer 2015 | UT

- Built an app to photograph graffiti and send reports to a city's 311 Dept. using Swift and iOS Geolocation APIs
- Selected to present at the BYU Civic Engagement Research Conference

### Other Projects

- Designed and soldered together a custom theremin controlled Atari Punk analog audio synthesizer
- Programmed a tower defense game from scratch in over 6,000 lines of Python code with custom 2D physics
- Developed several OpenGL particle effect demos and color gamut demos using the bare-bones WebGL API
- Used Python to create a Minecraft server auto-backup client to help server admins recover from griefing
- Created a color palette search site using AWS Lambda, DynamoDB, ReactJS, and the Dribbble.com API
- Made a custom Eventbrite check-in system using Digital Ocean, NodeJS, MySQL, and custom auth middleware

## LEADERSHIP/OTHER

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### BYU Developers Club – President

2015 - 2017 | UT

- Grew club from dormant to 60+ monthly members and 10 leadership members in under one year
- Increased club funding 150x by raising \$30,000+ in donations and starting a resume bank involving 100+ companies

### Other

- 1<sup>st</sup> Place State Science Fair – Computer Science: Rapid Application Development Using Python Scripting
- Opened for Maroon 5 at a private Microsoft concert in front of 2000 people by performing an EDM song on stage