

JOSHUA COCKRELL

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EXPERIENCE

Twitter – iOS Software Engineer Intern

Fall 2017 | CA

- Increased the Twitter iPhone app speed by migrating telemetry processes from Core Data to SQLite
- Contributed and shipped code changes which affect 100+ million monthly active iPhone app users
- Used Swift and Objective-C to fix bugs in the core Twitter iPhone app

Adobe – React Software Engineer Intern

Summer 2017 | UT

- Developed the first map visualization tool for Adobe Analytics Workspace using Javascript, React, and Mapbox APIs
- Created a modified clustering algorithm to handle billions of location data points
- Successfully merged project into master branch for upcoming Adobe Analytics Workspace release

Microsoft – Software Engineer Intern

Summer 2016 | WA

- Built a diagnosis tool for Fortune 500 companies to troubleshoot their Windows Server deployments
- Reduced time to diagnose customers' servers from 3 hours to 15 minutes using C#
- Helped 3 other Microsoft teams adopt this successful tool through internal presentations

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 1 ½ days down to a 4 second webpage reload
- 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 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

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

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

BYU Developers Club – President

School Year 2015 - Present | UT

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

Other

- 1st 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