Jacob O'Bryant

EDUCATION	**Bachelor of Science in Computer Science**	(Sep 2015–Dec 2017)

Brigham Young University. GPA: 3.98. Math minor.

Associate of Science, focus in Computer Science (Sep 2011–Jun 2013)
Edmonds Community College. GPA: 3.98.

WORK

Software Engineer Intern @ Chromatic.ai (Apr 2016–Aug 2016)

- Helped create a distributed, scalable data pipeline.
- Wrote a monitor to measure and report the pipeline's performance.
- Tools: Python, Linux, Docker, Kubernetes, Logstash, Elasticsearch.

Assistant Linux Systems Administrator @ BYU (Sep 2015–Jan 2017)

- Added new features to CABS, a piece of custom, critical backend software.
- Improved CABS' maintainability by 1) writing shell scripts to fully automate the build process and 2) creating an automated test suite.
- Helped create a new disk image for lab workstations based on RHEL 7.
- Tools: Linux, Python, SQL, Bash, Docker.

PERSONAL PROJECTS

Music Recommendation (Oct 2015–present)

- Received a $1,500 research grant from BYU.
- Created an Android app to upload users' playlists to a server and recommend new songs.
- Conducted a comprehensive literature review of current research.
- Created an Android music player to automatically learn users' music preferences from skipping behavior.
- Tools: Clojure, Java, SQL, Python, Linux, Docker.

Scripture Mastery Helper (Jan 2013–Jul 2013)

- Created an Android app to help users memorize passages of scripture.
- Received 2,000+ downloads on the Google Play store.

Documentation Generator (Jan 2013–Jun 2013)

- Wrote a Python program to parse C++ source code and generate class-required documentation.
- Saved classmates from hours of tedious work.

OTHER SKILLS

Communication: Created a free and online Intro to Programming course. Met in person with users to help improve the course. I've also written a collection of essays that are available on my website.

Leadership: Served a 2-year LDS mission in Singapore and Malaysia. Trained and mentored groups of other missionaries ranging in size from 6 to 22 people. Also led and mentored groups of 8 to 12 teenagers as an Especially For Youth counselor in summer 2017.

See jacobobryant.com/about for source code, research papers and additional information.