WILLIAM TONG SOFTWARE ENGINEER

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in wmtong

wmtong

▶ EDUCATION

WASHINGTON UNIVERSITY IN ST. LOUIS

Bachelors of Science in Computer Science

Double Major in Math

Expected Graduation: May 2019

GPA: 3.92 (Dean's List)

▶ FXPFRIFNCF

CERNER CORPORATION

Software Engineering Intern

May 2017 to Jul 2017

- Transformed RDBMS into D3 visualization through admin tool built from scratch with React, D3, and Rails.
- Catalyzed team shift towards a microservice architecture over monolithic by separating frontend from Rails API.
- Conducted preliminary containerized app deployment onto dev server using Docker and DCOS.

STUDENT DEVELOPMENT COMMITTEE

Lead Application Developer

Saint Louis, MO Sep 2016 to Present

Kansas City, MO

- Consulted clients, led design and implementation of solutions.
- Implemented real-time transportation routes and details to WUSTL iOS App and deployed changes to App Store.
- Built Hololens AR app for Geology department using C# scripts and Unity.

TALLYFY Saint Louis, MO

Freelance Software Developer

Jun 2016 to Aug 2016

- Conducted unit and functional testing on Tallyfy RESTful API through Postman interface.
- Produced first functional version of a dynamic, native Swift client consuming the Tallyfy API.

WASHINGTON UNIVERSITY IN ST. LOUIS

Saint Louis, MO Aug 2016 to Present

Teaching Assistant

- Assisted for intro/adv. algorithms courses and facilitated office hours, grading, and recitations.
- Topics: Sorting, hashing, greedy, DP, reductions, NP-completeness, competitive analysis, approx. algorithms.

▶ SKILLS

LANGUAGES Javascript (ES6), Swift, Python, C++, Java, SQL, HTML/CSS

FRAMEWORKS/LIBRARIES Ruby on Rails, React, D3, Firebase, Django

TECHNOLOGIES Git, Chrome Dev Tools, MySQL, Docker, Postman

PROJECTS

FINDME (IOS APP)

Jun 2016 to Aug 2017

- Created friend location tracking app using Google Maps API and Firebase backend.
- Leveraged real-time database to pinpoint user locations and timestamps for multiple map views.

D3 GRAPH VISUALIZATION

Jul 2017 to Aug 2017

- Constructed data visual tool to model complex relations using D3.js with React.js.
- Applied a Rails API to transform data for ready consumption by visual UI.

STROOP (IOS APP)

Oct 2015 to Jan 2016

- Produced game on App Store (500+ downloads, 1400+ impressions) testing cognitive processing and reaction time.
- Built game algorithms to randomize different combinations of colors and words based on the Stroop Effect.