

Fred (Qinmao) Zhang

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Portfolio Website: <https://fredzqm.github.io>

GitHub: <https://github.com/fredzqm>

Education: *B. S. in Software Engineering, Computer Science and Computer Engineering*

Rose-Hulman Institute of Technology, Terre Haute, IN

Major GPA - **4.0/4.0**

Minors: Math and Data Science

- Skills:**
- Java, C, C++, Python, JavaScript
 - Hadoop Ecosystem - Pig, Hive, Zookeeper, Solr, Ozzie
 - Application deployment with Docker
 - Database knowledge in MySQL, MongoDB, Redis, Firebase
 - Android and Chrome extension development
 - Web design experience with Angular, React, Spring Boot, ASP.NET

Experience: *Software Development Intern*

June 2017 - Aug 2017

Groupon, Seattle, WA

Implemented new workflow to improve performance and control over data

Restructured database to support finer grained data access of inventory product data

Migrated legacy database with feature flag and emergency rollback plan

Implemented new endpoints for use by Groupon Getaways Deal Service with full localization support

Android Developer

June 2016 - Aug 2016

Personal Project - Android Course, Rose-Hulman, Terre Haute, IN

<https://goo.gl/RmLn9p>

Designed and built *Jobee*, an Android app designed for recruiters to collect resumes

Researched and integrated QR Code and Firebase Cloud Messaging with the app

Teaching Assistant

Nov 2015 - Present

Computer Science & Software Engineering Department, Rose-Hulman, Terre Haute, IN

Grader for Theory of Computation (474), Algorithm Analysis (473), Operating System (332),

Programming Language Concept (304), Data Structure and Algorithm (230)

Provide detailed feedback comments and helped students through e-mail and Piazza

Undergraduate Researcher

Nov 2015 - Jan 2017

Directive Math Research, Rose-Hulman, Terre Haute, IN

<https://goo.gl/5p3GtK>

Researched and implemented Parker-Sochacki method (PSM) algorithm in MATLAB

Applied the developed algorithm to tackle delayed differential equations

Activities: Eta Kappa Nu (HKN), IEEE National Honor Society

Alpha Lambda Delta (ALD), National Freshman Honor Society

Webmaster of International Student Association (ISA)

Honors: Certificate of Distinction in American Mathematics Competition, 2014

Third Place in Alfred R. Schmidt Freshman Mathematics Competition, 2015