

# Fred (Qinmao) Zhang

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

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

**Objective:** Seeking a software engineering full-time position.

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

Rose-Hulman Institute of Technology, Terre Haute, IN

**May 2018**

Minors: Math and Data Science

**Major GPA—4.0/4.0**

Status: Senior

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

**Experience:** *Software Development Intern*

June 2017 - Aug 2017

Groupon, Seattle, WA

Design and update MySQL database to support additional data

Implement and document new HTTP endpoints for API service dependency deprecation

Communicate with external team to coordinate the requirement of the new workflow

Plan and deploy the data migration in production server with emergency rollback plans

*Android Developer*

June 2016 - Aug 2016

Android Development Course, Rose-Hulman, Terre Haute, IN

<https://goo.gl/RsZFm2>

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 Department, Rose-Hulman, Terre Haute, IN

Grade for Theory of Computation (CSSE474), Algorithm Analysis (CSSE473), Operating System

(CSSE332), Data Structure and Algorithm (CSSE230), Programming Language Concept (CSSE304)

Provide detailed comments feedback 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/pXFJ6m>

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