

# Qinmao (Fred) Zhang

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

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

**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:**

- Programming in Java, C, C++, C#, Python, JavaScript, and Typescript, etc.
- Big fan of Hadoop. Experience in Pig, Hive, Sqoop, Zookeeper, Solr, Ozzie, etc.
- Application deployment with Docker
- Database knowledge in MySQL, MongoDB, and Firebase
- Android and Chrome extension development
- Web design experience with Angular, React, Spring Boot and ASP.NET

**Experience:** *Software Development Intern* June - Aug, 2017  
Groupon, Seattle, WA

- Design and update MySQL database to support external data
- Implement and document new HTTP endpoints for API service dependency deprecation
- Communicate with external team to coordinate update of API.
- Plan and deploy the data migration in production server with emergency rollback plans

*Android Developer* June - Aug, 2016

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

- 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
- Source codes and demo video available at <https://github.com/fredzqm/jobee>

*Teaching Assistant* Nov 2015 - present

Computer Science Department, Rose-Hulman, Terre Haute, IN

- Graded for Theory of Computation (CSSE474), advanced algorithm analysis (CSSE473), Operating System (CSSE332), Data structure and algorithm (CSSE230)
- Provided detailed comments feedback and helped students through e-mail and Piazza

*Undergraduate Researcher* Nov 2015 – Jan 2017

Directive research project, Mathematics Department, Rose-Hulman, Terre Haute, IN

- Researched and implemented Parker–Sochacki method (PSM) algorithm in MATLAB
- Applied the developed algorithm to tackle delayed differential equation problems
- Source codes and documentation available at <https://github.com/fredzqm/dPSM>

**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  
Fourth place in American Chemistry Society Indiana Scholarship Examination  
Third place in Alfred R. Schmidt Freshman Mathematics Competition