

# Qinmao (Fred) Zhang

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

**Objective:** Seeking a software engineering co-op or summer internship

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

Rose-Hulman Institute of Technology, Terre Haute, IN

**May 2018**

Minors: Math and Economics

*Major GPA—4.0/4.0*

Status: *Junior with Senior Standing*

**Skills:**

- Programming in Java, C, C#, Python and JavaScript
- Web design experience with PHP, ASP.NET, node.js and AngularJS
- Android development
- Database knowledge in SQL, MongoDB, and Firebase
- Signal processing and modeling with MATLAB and LabVIEW
- Agile project management and software quality assurance experience

**Experience:** *Android Developer*

June - Aug, 2016

Android development course, Department of Computer Science, Rose-Hulman

- 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>

*Catapult Assistant*

June - July, 2016

Catapult Operation, Department of Computer Science, Rose-Hulman

- Assisted professors prepare course materials
- Helped students debug Python programs
- Devised PyGame templates to help students of different experience levels

*Teaching Assistant*

Nov 2015 - present

Department of Computer Science, Rose-Hulman

- 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 - present

Directive research project, Department of Mathematics, Rose-Hulman

- Studied and implemented Parker–Sochacki method (PSM) algorithm in MATLAB
- Applied the developed algorithm to tackle delayed differential equation problems
- Currently working on the paper for this research
- 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