

Hengrui Xing

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EDUCATION

Columbia University, Columbia College

B.A. in Computer Science and Physics expected May 2020, **GPA: 4.199/4.3**

Relevant Coursework: Advanced Programming, Data Structures in Java, Development Technology in Linux

SKILLS

- Proficient in full-stack development with Java J2EE (MySQL, Hibernate, Struts, Spring), HTML/CSS (Bootstrap), JavaScript (Node, AngularJS, React, JQuery, d3, MongoDB), Python, Go, C/C++, and Bash
- Adept with Linux/OS X shell, Windows Power Shell, Docker, and IOS development with Swift and Ionic
- Knowledge in data analysis and machine learning algorithms with R, Python, Matlab, and MS Azure

PROFESSIONAL EXPERIENCE

n-Join Research

May 2017 – July 2017

Software Engineering Intern

- Engineered a Java micro-service individually with Spring Boot, JPA and deployed server on AWS cloud
- Improved the efficiency of machine learning back-end API through multi-threading and scheduled tasks
- Designed and implemented the front-end analytics console with Bootstrap, AngularJS and JQuery
- Cooperated in the startup tech team using the scrum framework with JIRA and Bit Bucket

InitialView

September 2016 – March 2017

Software Engineering Intern

- Designed and implemented RESTful API server with MySQL and Go; project deployed on Docker
- Developed new functionalities for Android interview management app with AngularJS, vue.js and Ionic
- Performed automated web and mobile testing with Python, Selenium, and penetration testing techniques

Foundry Girls Who Code Project Team

November 2016 – May 2017

IOS App Developer

- Designed and developed IOS App for Girls Who Code Organization with Swift and Storyboard
- Implemented text recognition function with Google Tesseract-OCR and pixel preprocessing algorithms
- Collaborated in a development team with 5 IOS developer and delivered presentations in weekly meetings

Kingdee Software Inc.

June 2016 – August 2016

Software Engineering Intern

- Developed education web app on front and back end with J2EE (Struts, Spring and Hibernate framework)
- Designed mobile-friendly web pages with JSP, CSS, JavaScript using Bootstrap and JQuery frameworks
- Deployed software on Apache/Linux platform and applied to Yucai Primary School in China for fall 2016

YHack

November 2016

Finalist, Yale International Hackathon

- Designed and developed a novel Android/IOS app for college students with JQuery, AngularJS and Ionic
- Implemented function for customized trip planning with Google Directions, Yelp and Ticketmaster APIs

Tsinghua University

July 2015 – August 2015

Research Scholar, Research Science Initiative (RSI)

- Developed novel theoretical models for magneto-hydrodynamic filaments under self-gravity
- Implemented statistical analysis and Runge-Kutta approximation in Matlab
- Research published in *Monthly Notices of the Royal Astronomical Society* (2016, issue 456)

LEADERSHIP

Visionary Magazine

October 2013 – August 2015

Chief Editor

- Managed approx. 30 members and staffs and organized weekly meetings, workshops and bonding events
- Oversaw the process of magazine publication, contacted sponsors, and produced six issues in one year