

Jiehan Zheng

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Education

Duke University Trinity College of Arts and Sciences

Durham, NC

B.S. in Computer Science, B.A. in Psychology, GPA: 3.672/4.000

2014–2018

Relevant coursework: 201: Data Structures and Algorithms (student, then TA), 230: Discrete Math for Computer Science Majors, 250: Computer Architecture, 310: Introduction to Operating Systems, 290: Computer Security, 270: Introduction to AI, 330: Design and Analysis of Algorithms, 356: Computer Network Architecture, 510: Distributed Systems.

Peddie School

Hightstown, NJ

High School, GPA: 3.49/4.00

2011–2014

Relevant coursework: AP Computer Science, Independent Study in Computer Science, Mathematical Modeling.

Experience

Facebook, Inc.

Menlo Park, CA

Software Engineering Intern

May–Aug 2017

On the Dynamic Ads team. Currently working on React and Flux-based internal dogfooding tool that generates dummy merchant websites with user tracking code set up; and dummy React Native-based iOS and Android shopping apps for testing mobile tracking and ads deeplinking. Implemented new features in the advertiser-facing web interface, and refactored some code to adopt company best practices and new frameworks.

Yahoo, Inc.

Sunnyvale, CA

Software Engineering Intern

May–Aug 2016

Worked on Yahoo's JSON schema-based live configuration service used by Yahoo News, Sports, and Finance sites in production by:

- Redesigning and rewriting the middleware with JavaScript promises and Lodash (reduced 10k lines to 5k + tests);
- Improving security by implementing authentication between the backend and middleware, and fixing incomplete authorization;
- Adding Swagger API docs, functional and unit tests to the middleware which helped reduce confusion among team members;
- Enhancing our editor-facing UI by making Ember.js add-ons for json-editor and JsonDiffPatch.
- I also submitted two bugfix PRs to json-editor on GitHub, one of which has been merged.

Duke University Office of Information Technology

Durham, NC

Innovation Co-Lab Technical Consultant

Jan 2015–present

Responsibilities include developing APIs for the University, building a Ruby on Rails-based University App Store, and providing technical advice on web technologies and architecture, as well as answering basic iOS dev-related questions during office hours.

Baidu US Development Center

Sunnyvale, CA

Research & Development Intern

Jun–Jul 2015

Helped improving a medical knowledge graph and search ads system.

Columbia University Center for Computational Learning Systems

New York, NY

Machine Learning & NLP Research Assistant

2013–2014

Contributed to a social network extractor from English text by making a web interface in Node.js, refactoring code that invokes SVM classifier to improve extensibility, and incorporating the SEMAFOR semantic frame parser to the pipeline; built a SVM-based movie screenplay parser that accepts incorrect indentation and capitalization; contributed to a project that automates the Bechdel test; built a machine learning error analysis tool; created and maintained the team's MongoDB database that contains movie screenplays and metadata scraped from many websites. There are five published papers[↗] related to my work there.

Jiehan VPN and Proxy Service

Beijing, China

Founder

2010–present

Small-scale two-server VPN service in China to provide uncensored Internet access since 2010. Usage is around 100+ GB traffic, 100 users per month. I have learned some Linux sysadmin, SQL, RADIUS, and strongSwan VPN networking through developing and maintaining this service.

WordPress Foundation

Remote

cn.wordpress.org Maintainer and Tech Support

2010–2013

Maintained Chinese translation of the WordPress blogging software, created localization patches in PHP, provided tech support (plugin development, server configuration, etc.) to users via email and support forums, and managed local releases.

Selected Projects (With Code on GitHub at github.com/jiehanzheng)

[gitlab.duke] Duke University App Store: iOS Enterprise App Store at Duke University. Automatically signs student-uploaded iOS apps with a custom Bash script; web interface built in Ruby on Rails.

Uber for Tutoring: My HackDuke project completed in 24 hours that brings Uber-like functionality to tutoring. Provides real-time tutor dispatching through the use of Node.js, Socket.IO, AngularJS, Ruby on Rails, and JSON web tokens.