

Jiehan Zheng

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Education

Duke University Trinity College of Arts and Sciences

Durham, NC

B.S. in Computer Science, GPA: 3.646/4.000 overall, 3.940/4.000 for COMPSCI courses

2014–2018

Relevant coursework: Data Structures and Algorithms, Discrete Math for Computer Science Majors, Computer Architecture, Introduction to Operating Systems, Computer Security, Introduction to AI, Design and Analysis of Algorithms, Computer Network Architecture, Distributed Systems (ongoing).

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

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.

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, which resulted in cleaner code; improving security by implementing authentication between the backend and middleware, and fixing incomplete authorization; adding Swagger docs, functional and unit tests to the middleware; improving our editor-facing UI by making Ember.js add-ons for and integrating json-editor and JsonDiffPatch. I also submitted two bugfix PRs to json-editor on GitHub, one of which has been merged.

Baidu US Development Center

Sunnyvale, CA

Research & Development Intern

Jun–Jul 2015

Helped improving a medical knowledge graph by developing a simple but extensible framework to scrape various websites; configured servers and wrote automation scripts; created Hadoop jobs to collect training data for a search query intent classifier in creative ways; created an elegant iOS app, as well as two web demos for the medical knowledge base.

Duke University Department of Computer Science

Durham, NC

Teaching Assistant for 201: Data Structures and Algorithms

2015

Staffing helper hours, monitoring and responding to questions on online forum, and grading assignments and tests.

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.

🐳 Docker-based isolated auto-grader: A Docker-based auto-grader framework prototype I built for my CompSci 310 Operating System professor to showcase the ability of Docker and Docker's Python interface.

🚗 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.

Technical Skills

Programming Languages: In order of familiarity: JavaScript (Node.js and browser), Java, Ruby, Python, PHP, Swift