

Zhu Liang

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Education

National University of Singapore

Aug 2013 – May 2017

Bachelor of Computing (Honours) in Computer Science (von Neumann Programme), GPA: 4.39
Dean's List 2015-2016 Semester II, Focus Areas: Software Engineering, Artificial Intelligence

Employment

Teamie, Singapore (Cloud-based Social Learning Platform for Schools and Enterprises)

May 2016 - July 2016

Web Developer Intern

- Enhanced the user experience for content creation interface, making it more user-friendly to add or edit of contents
- Developed an interactive web dashboard for school administrators, allowing them to visualize and analyse key metrics on students' learning progress, as well as the usage of various features in the system
- All improvements and products shipped to production for client institutions
- Used Angular.js and d3.js for front-end and data visualization, PHP(drupal) and MySQL for backend web service APIs

National University of Singapore

June 2014 - Jan 2016

Web and Mobile Developer (Part-time)

- Led the web and Android development of two projects, 3D Sym Op (Interactive visualization of chemical compounds) and Animol (Chemistry experiments on smartphones)
- Helped thousands of high school and university students in understanding abstract chemistry concepts
- Designed and implemented web portal in Angular.js and Node.js, native Android apps in Android Studio

IBM Singapore Software Lab

May 2015 - Oct 2015

Software Engineering Intern

- Designed, developed and patented ([US 9519698 B1](#)) a system to visualize patterns in software logs and identify the cause of an error
- Used by IBM software teams internally to process huge amount of log files on the scale of gigabytes
- Front-end visualization developed using d3.js, backend server and data processing implemented in Golang

Technical Skills & Technologies

Web Frontend	JavaScript, d3.js, jQuery, Angular.js, HTML5, CSS(Less/Sass), webpack
Web Backend, Database	Go, Node.js, Python(Flask), MongoDB, SQL(mysql, PostgreSQL, SQLite), neo4j
Mobile	Android App (Native)
General	Git, Linux, Progressive Web App, Material Design
Primary languages	JavaScript, Java, Go, Python

Experience and Awards

Open-source Projects - github.com/paradite

Contributor for [Socket.io](#) - Top JavaScript framework for realtime communication, 15 million downloads in 2015

- Upgraded build tools and the codebase to with new technologies and ES6 syntax
- Developed a new tutorial for developing online collaborative drawing whiteboard

Contributor for [Teammates](#) - Web peer evaluation platform, used by over 700 institutions worldwide

- Developed front-end visualization to showcase the geographical diversity of Teammates' users

Contributor for [MediumEditor](#) - Popular text editor library for web applications

- Extended the paste functionality to allow more custom behaviors

Personal Side Projects, Competition/Hackathon Projects - paradite.com/my-projects

Gitviz	Web	Visually compare GitHub users' recent contributions
Sudoku Solver	Web	Web Sudoku Solver that automatically solves Sudoku puzzles
Gestfly	Web	An web arcade game controlled by hand gestures, using leap motion as sensor Top 5 finalist for NUS Hack&Roll 2015 by NUS Hackers
Graphpedia	Web	Web app to help visualize the relationships between technical terms
Whatsoever	Android	Anonymous searching on social media sites
Card Safe	Android	Managing personal information using NFC-enabled cards
Black Hole	Android	Arcade game, 16,000 downloads, best gameplay prize for NUS Game Development Competition