

Zhengshi Zhao

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Technical skills

Proficient: JavaScript, AngularJS, NodeJS, Express, Mongoose, MongoDB, HTML5, CSS, Bootstrap

Knowledgeable: Python, Shell Script, SQL, LaTeX, Linux, Promise, Mocha, Chai

Some experience: R, Tableau Public, Jasmine, JS-Data, Socket.io, Ajax

Education

Grace Hopper Academy

New York, NY

Software Engineering Immersive Program

Jan. 2016 – Apr. 2016

The Graduate University for Advanced Studies, School of Physical Sciences

Tokyo, Japan

Ph.D. in Astronomy Japanese Government Scholarship (MEXT), awarded in 2009

Oct. 2009 – Sep. 2012

University of Chinese Academy of Sciences, National Astronomical Observatories, CAS

Beijing, China

M.Sc. in Astrophysics

Sep. 2006 – Jul. 2009

Nanjing University, Department of Astronomy

Nanjing, China

B.Sc. in Astronomy

Sep. 2001 – Jun. 2006

Technical Experience

Grace Hopper Academy – Full stack developer

(* indicates personal project)

- **Coder Notes:** Deployed a notebook application for managing both text notes and in-app executable code using Angular markdown and TonicDev tools. codernotes.herokuapp.com | github.com/ksenia0822/GHA-Capstone
- **Talking recipes*:** Created interactive recipe website with recipe API. Used Web Speech API to generate audio recipe instructions and to play recipes with voice control. github.com/zhengshizhao/talking-recipes
- **Classroom Surveillance Camera:** Built a server to remotely control Tessel camera module by interacting with the server built on Tessel board. Won Tessel Hackathon First Prize. github.com/zhengshizhao/tessel-hackathon

Research Experience

National Astronomical Observatory of Japan

Tokyo, Japan

Graduate Research Fellow

Oct. 2010 – Sep. 2012

- Performed data processing and data analysis for spectroscopic data observed with Subaru Telescope (Hawaii).
- Applied iterative method and linear fitting to measure objects' parameters.

University of Padova

Padova, Italy

Visiting Researcher, Research abroad program

Feb. 2012 – Mar. 2012

- Wrote programs to perform data classification, spatial distribution analysis and data visualization with 50+ datasets, each of them including 10,000+ ~ 150,000+ objects.

Additional research and education information:

<http://zhengshizhao.altervista.org/ZhengshiZhao.htm>