

ZOË AMES

Developer | Web Designer | Astrophysicist



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Projects

Star Trek: Journey to Starbase Andromeda

startrek.zoeames.com

A choose-your-own-adventure game based on characters from the Star Trek franchise backed with real physics calculations.

Skills used: JavaScript, MongoDB, Express, Angular, Node, Bootstrap

CourseControl

coursecontrol.zoeames.com

Allows teachers to bring technology into their classrooms by providing a platform where teachers can ask questions and students can vote with their smartphones.

Skills used: JavaScript, PostgreSQL, Hapi, Angular, Node, Foundation

Education

Nashville Software School

Graduation: January 2015

- Six month intensive bootcamp focusing on programming in Javascript
- Main technologies: MEAN Stack but also experience with SQL databases
- Experience with individual projects, pair programming, and group work
- Focus on testing and TDD with Mocha, Chai, and Lab
- Emphasis on mobile development and desktop apps with mobile components

Master of Science in Physics

San Francisco State University

Graduation: May 2014

Thesis Title: "Searching for the Lowest Mass Products of Star-Formation in IC 348"

Coursework in: Interactive Data Language, Mathematica, UNIX

Bachelor of Arts

Smith College

Graduation: May 2009

Double Major: Astronomy and Physics

Coursework: Python, Mathematica, UNIX, Interactive Data Language, Matlab

Related Experience

Research Experience

Institutions: San Francisco State University (October 2010 to May 2014), SETI Institute (Summer 2012), McDonald Observatory (Summer 2008), Lowell Observatory (Summer 2007), Smith College (September 2005 - May 2009)

Experiences gained:

- Over 9 years experience with UNIX and LINUX operating systems
- Over 8 years experience using and writing Fortran based programs (IDL and IRAF)
- Over 9 years of physics based problem solving
- Over 8 years experience working with large sets of data. Including both data reduction and data analysis

StudyPoint/PrepNow Tutor

October 2010 - present

Responsibilities: Tutor students at their houses and online in SAT, ACT, PSAT, SSAT, Physics SAT II, or academic tutoring. Nominated three times for Most Valuable Tutor award.

Graduate Teaching Associate

August 2010 - May 2014

Location: San Francisco State University

Responsibilities: Taught two sections of ASTR116: Introductory Astronomy or PHYS 102: Introductory Physics for Non-Science Majors per semester.

Undergraduate Teaching Assistant

August 2006 - May 2009

Location: Smith College Astronomy Department

Responsibilities: Assisted teaching introductory astronomy courses.

Contact Details

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Skills

LANGUAGES:

- Javascript
- Python
- Fortran
- Mathematica
- Matlab

TESTING:

- Gulp
- Grunt
- Mocha
- Chai
- TravisCI
- Coveralls
- Lab

DATABASE:

- MongoDB
- PostgreSQL
- Mongoose
- RoboMongo

USER EXPERIENCE:

- CSS3
- HTML5
- Jade
- Less
- Sass
- jQuery
- Bootstrap
- Foundation

MOBILE DEVELOPMENT:

- Cordova
- PhoneGap
- Ionic
- iOS and Android
- Xcode

PROFICIENT IN:

- Adobe Photoshop
- Mac, PC, and Linux OS
- Microsoft Office
- IDL
- IRAF
- LaTeX