David T. **Mozzoni**

Software Engineer · Physicist

Warwick, RI

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Education

General Assembly — *Providence, RI*

Student in Web Development Immersive Program — *Nov. 2016 - Feb. 2017*

- An intensive program that introduced me to such web technologies as:
  HTML5, CSS3, Javascript, Ruby, Rails, AngularJS, Node.js, React, the MEAN Stack and others.
- Example projects created during the program:
  - **Butterflies of RI Quiz** – A trivia style game to test your ability to identify the butterflies of Rhode Island.
    Developed using HTML5/CSS3/Javascript. *(Web App / Github)*
  - **Butterflying Lifelist** – This is a management tool to keep track of all the butterflies you have seen.
    Developed using Ruby on Rails. *(Web App / Github)*
  - **nonoGrids** – This is a React implementation of the nonogram puzzle game.
    Developed using React and Node.js. *(Web App / Github)*

Florida State University — *Tallahassee, FL*

PhD, MS, BS in Physics & BS in Mathematics — *2007*

- Geomagnetic Field Modelling – Studied at NCAR and GFZ.
- **Dissertation**: "The Changing Geomagnetic Field from the Ionosphere to the Core-Mantle Boundary",
  Florida State University, Department of Physics, 2007. http://purl.flvc.org/fsu/fd/FSU_migr_etd-2213

Skills

Web	HTML5, CSS, Rails, AngularJS, MEAN, React, Mongo, GraphQL, Relay
Programming	Javascript, Fortran, Ruby, LaTeX, IDL, Node
Certifications	CompTIA A+ (220-901, 220-902)

Experience

octoScope — *Littleton, MA*

Software Engineer — *May. 2017 - Present*

- On a team developing an application to manage wireless networking testbed equipment. (Node, React, Mongo, GraphQL, Relay)

Dean's List Academy — *Pawtucket, RI*

Volunteer — *Oct. 2013 - Nov. 2016*

- Manage Donation Center and Fabric Store to support organizational programs as well as providing IT assistance.

Florida State University, Geophysical Fluid Dynamics Institute — *Tallahassee, FL*

Post-Doctoral Research Associate — *Jun. 2009 - Jul. 2013*

- Geomagnetic Field Modeling, Data analysis, programming mainly in Fortran and IDL.
- NASA Grants:
  - "Integration of MGS MAG and ER Data Sets: Producing a Substantially Improved Crustal Magnetic Field Model of Mars"
    (Proposal Number: 4200342225 – Grant Number: NNX10AL23G)
  - "Determining the Direction of the Axis of a Spinning Spacecraft in LEO from Geomagnetic Observations"
    (Proposal Number: 4200292923 – Grant Number: NNX09AI78G)

GeoForschungsZentrum-Potsdam — *Potsdam, Germany*

Graduate Student Position — *Feb. 2006 - Feb. 2008*

- Geomagnetic Field Modeling, Data analysis, programming mainly in Fortran and IDL.

Florida State University, Geophysical Fluid Dynamics Institute — *Tallahassee, FL*

Graduate Assistant — *Sep. 1999 - Jan. 2006*

- NASA Earth System Science (ESS) Fellowship (R-ESSF/03-0000-0086, NGT5-30454)
  "Evaluating Sources of the Geomagnetic Field by Global Modeling: Core, Crust, Ionosphere and Ocean"

Electric Boat, Division of General Dynamics — *Groton, CT*

Summer Intern Program — *Jun. - Aug. 1997 - 1999*

- A summer internship for three consecutive years. Vibration analysis of submarine components, and Fortran source code validation.

Florida State University, Martech – Helium Atom Scattering Group — *Tallahassee, FL*

Student Assistant (Part-time, During School Term) — *May. 1997 - Dec. 1997*

- Developed Origin and C++ Builder applications to analyze Helium Atom Scattering data.