

# Ethan Shepherd

Full Stack Java/JavaScript Developer

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## SKILLS

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<b>Languages</b>	<b>Primary:</b> JavaScript, Java <b>Secondary:</b> Groovy, Python, C
<b>Frameworks/Libraries</b>	Spring/Boot, React, AngularJS, D3, jQuery, Node
<b>Other</b>	Oracle, iBatis, MongoDB, Selenium, Cypress, Git/SVN, Linux

## EXPERIENCE

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**National Centers for Environmental Information** June 2012 - Present  
*Web/Applications Engineer - Station Metadata/Paleoclimatology Teams* Asheville, NC

Design and create Java/JavaScript web applications, REST web services, visualizations, and Groovy server-side applications to ingest and access ground station and paleoclimatology metadata

- [Paleo DIVER](#) [Java, Spring, iBatis, AngularJS, D3JS, ArcGIS API]: Paleoclimatology data search, access, and download via web UI or RESTful API.
- [HOMR](#) [Java, Spring, iBatis, jQuery, D3JS]: Access ground station history data via dynamic web UI or RESTful API.
- *Metadata Ingest* [Groovy]: Modular and configurable ETL system to retrieve and integrate station history data from a variety of sources.
- [Normals](#) and [Climate Atlas](#) [React, jQuery]: Visualization and access tools.

**National Climatic Data Center** November 2009 - June 2012  
*Scientific Programmer - Remote Sensing Division* Asheville, NC

C and Fortran scientific data application maintenance, and transition to operations. Java/Spring web application maintenance and development.

- *NOAA Climate Data Records* [C, Fortran]: Refactored scientific data applications from research to operations. Required coding for portability and ease of use, standardizing output, and creating documentation.
- Bilotta, Rocky, Jesse E. Bell, Ethan Shepherd, and Anthony Arguez. *Calculations and evaluations of an air-freezing index for the 1981-2010 climate normal period in the coterminous United States.* - [JAMC](#)

**National Climatic Data Center** February 2008 - November 2009  
*Systems Analyst / Web Applications Developer - Climate Model Access Team* Asheville, NC

Web application development and maintenance using JSP, Java Servlets, Perl/CGI, and PHP. Installation and maintenance of various specialized data access servers and applications in RHEL 5.

- *BitTorrent* [Linux, Python]: Initiated the use of BitTorrent at NCDC. Proposal to management, software evaluation, performance testing, and writing operational scripts. Presented results at the 2009 American Geophysical Union annual meeting.

**Personal Projects** [GitHub](#)

- [Java, JavaScript (React, jQuery, AngularJS, VueJS, D3JS, NodeJS), Python, Android, MongoDB, Groovy/Grails]: Various web and Android hobby projects. Set list matcher, habit tracker, eclipse traffic viz, etc.

## EDUCATION

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**Georgia Institute of Technology** 2014-2016  
M.S. in Computer Science (spec: Computing Systems)

**University of North Carolina, Asheville** 2005-2007  
B.S. in Computer Science