404-923-0030 mpeppers@gmail.com 318 Grant St SE, Atlanta, GA 30312

# Mark Peppers

# Experience

Software Engineer III, PGI; Alpharetta, GA — Jul 2017 – JUL 2018

LEAD SOFTWARE EngineeR, PGI; Alpharetta, GA — Jul 2018 – Mar 2019

* Led a team of 3 senior engineers to develop microservice-based integrations among conferencing software, billing, mediation, and business intelligence teams using Java 8 EJBs, RabbitMQ, MongoDB, and Microsoft SQL Server.
* Implemented Mulesoft Enterprise Service Bus to drive API-led, continuous integration of worldwide billing solutions, tying together new products and technologies with PGi sales partners and legacy systems.
* Utilized agile methodology among several teams to develop dependable, testable solutions to business needs, including new product support and promoting existing systems to newer, cloud-based solutions in AWS.
* Designed Data Warehouse database in Microsoft SQL Server. Implemented a custom ETL, using Mulesoft ESB, and Java to populate the Data Warehouse with real time sales and usage data from PGi’s online billing vendor, BillingPlatform.
* Led an external team applying TestNG unit tests to PGi’s 200+ business rules implemented using Red Hat Drools.

Senior software architect, sizmek inc; Atlanta, GA — Jan 2015 - Feb 2016

* Developed a product used by QA to automatically certify web sites for Sizmek’s digital ad formats, using Java and Selenium.
* Used Hadoop on web traffic data set to create a proof-of-concept method for identifying cross-device user browsing of the same site.
* Created an engine to assist QA by programmatically driving traffic and clicks to test ad reporting metrics. Developed a front-end dashboard to set up testing scenarios, using JavaScript 1.8.5 with the AngularJS framework. Implemented the back-end in Java 8 with Spring framework, Selenium, and MongoDB.

Senior Web Developer, Turner Broadcasting System; Atlanta, GA — Sep 2009 - Oct 2014

* Developed online ad solutions for 20+ Turner-owned web sites, using JavaScript to connect with Dart Enterprise ad servers and place ads dynamically and in a fault-tolerant fashion on web properties.
* Developed JavaScript injection tool that scans a web page to display its ad placements and parameters, and can dynamically change ad cookie information on sites with CNN’s ad code. This tool dramatically improved the development teams’ ability to apply different tracking methods for ads, and assisted diagnosing and resolving any problems affecting ad delivery, visibility, and tracking.
* Developed Content Management System used by CNN, CNN/Money, NBA, NASCAR, and SI using client-side ActionScript and server-side Java, Node.js, Oracle, and CouchDB-based NoSQL technology.
* Used Puppet and Chef to deploy continuous integration solution for Turner’s custom CMS.
* In 24-hour support role, coordinated among the Digital Operation Center and various sites’ WebDev teams to ensure continuos availability and top-level user experience to highly visited sites

Java programmer, turner broadcasting system (through Matrix); Atlanta, GA — Nov 2007 - May 2009

* Implemented historic sports data information pages, using a custom Java-based template language to generate pages which provided interactivity via core JavaScript.
* Supported NASCAR live scoring online. Provided on-call support during events, ensuring excellent fan experience viewing event data on the Web.
* Coordinated, planned, and developed solutions for advertising and promotion between Sports Illustrated online and partners, using appropriate Web and server technologies, including Java, JavaScript, XSLT, AJAX, Oracle and MySQL.
* Updated legacy online tools by organizing them into current Atlassian-based build and deploy tools.
* Applied Enterprise Java Bean technology to provide critical enterprise solutions, integrating partner feeds from heterogeneous systems, applying business logic, and delivering engaging customer experiences on multiple platforms using an in-house Enterprise Service Bus.

Senior Software Engineer/Computer Vision Specialist, IAVO Research and Scientific; Durham, NC — Jul 2006 - sep 2007

* Kick-started project creating image maps of large regions for Army Topographic Engineering Center from imagery taken from unmanned Aerial Vehicles (UAV’s).
* Created several image-processing tools to recognize tie points between stereo satellite or aerial images, and generated dense Digital Elevation Maps (DEMs) from stereo image pairs over a region.
* Supported and updated software tools to validate and fuse DEMs that cover overlapping regions at (possibly) different resolutions.

Graduate Research/Teaching Assistant, University of North Carolina at Chapel Hill; Chapel Hill, NC — Sep 2001 - July 2006

* Taught introductory undergraduate astronomy and physics labs.
* Taught recitation for undergraduate calculus-based physics (2002-2006).
* Developed curriculum and taught a new recitation for graduate electricity and magnetism course (2005).
* Taught advanced undergraduate lab — numerical techniques in physics — using MatLab as a teaching tool for programming (2006).
* Designed and built a high-frequency nuclear magnetic resonance probe to study purity and properties of silicon samples (2002).

Senior Software Engineer, CNNSI Interactive (Turner Broadcasting); Atlanta, GA — Jan 2000 - Aug 2001

* Built and maintained Java-based back-end processing engine for MLB ScoreCast, an early Web application that allowed baseball fans to view play-by-play graphical summaries of Major League Baseball games.
* Exposed a previously-unknown processing bottleneck, resolving a year-long problem that hindered timely delivery of live sports scores to CNNSI’s site.
* Wrote, maintained, extended, and improved various ASP, PERL, and Java applications that updated sports scores, standings, stories, and editorials for the site.
* Supported custom Content Management System used by editors to post sports stories.

Member of Engineering Staff, C-COR.net Inc; Suwannee, GA — Jun 1999 - Dec 1999

* Developed network monitoring and diagnostic utilities using C, PERL, SNMP, and MySQL.
* Designed new, scalable strategies for authentication of cable broadband customers, portable among BSD, Linux, and Solaris.
* Developed service monitoring system for 30,000+ cable modems and hundreds of routers and Internet cache servers, used by technicians and customer support to dispatch repair crews in a timely manner.

Customer Support Engineer/Senior Technical Consultant, S2 Systems Inc; Atlanta, GA — sep 1996 - Feb 1999

* Developed and implemented custom solutions for government, healthcare, retail, banking, and entertainment clients on VOS, AIX, and HP-UX platforms.
* Sustained customer relationships with bug fixes, VOS and UNIX system administration and upgrade assistance.

# Education

University of North Carolina at Chapel Hill — M.S. Physics and Astronomy, 2006  
 Masters thesis title: “Cortical map formation using biophysical model neurons”

Georgia Institute of Technology — B.S. Physics, 1996

# Core Technologies

Programming languages: Java, JavaScript, ActionScript, C, Unix shell scripting

Databases: CouchDB, MongoDB, Oracle SQL, MySQL, MongoDB

Frameworks: Spring, AngularJS, Bootstrap

Software: Mulesoft, Atlassian, git, Subversion, Maven