

# Brad Achorn

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## Nov 2018 - Present, **Systems Team Leader**, State of Maine OIT, Augusta ME

Technical Lead for Workday Maine, a project to migrate state HR from several legacy systems to Workday, a modern SaaS application. Supervise developers and vendor performing data conversion. Plan and supervise migration from legacy interfaces to Workday integrations. Coordinate between OIT, project, and business staff to ensure the project meets the state's technical and security requirements and policies.

- Completed initial data extraction on time despite reduction in both timeline and resources available.
- Presented integration plans to over 70 stakeholders at kickoff meeting.

## Jan 2016 - Oct 2018, **Senior Programmer Analyst**, State of Maine OIT, Augusta ME

Full stack development using Agile methodologies of accessible, responsive, cross-browser web applications for DHHS case management. Used Oracle, Java, Spring, Hibernate, Bootstrap, jQuery, WebLogic, Jenkins, SonarQube.

- Led an incident response that required coordinating testers for 82 applications in two days.
- Led cross-functional effort to test patching process in new hosting environment.
- Reduced time spent supporting APS case management system by over 50% over two years.
- Improved team's code quality for multiple projects by implementing automated builds and code analysis.
- Presented code quality lessons learned to other teams, then over 400 people at 2017 OIT All-Hands meeting.
- Improved reliability and security by replacing legacy check printing applet, coordinating testing with bank.
- Overcame accessibility challenges of single-page web application to meet strict accessibility requirements.
- Presented accessibility lessons to other teams to facilitate accessibility of other applications.

## Jun 2007 - Jul 2015, **Software Developer / Consultant**, InMaps (acquired by Ubisense in 2011), Camden ME

Full stack web and mobile development of GPS-based gas leak survey planning and tracking application (47 thousand miles of mains surveyed, 75 million GPS points recorded). Assisted in Customer Development. Consulted with gas and electric utilities to maintain and improve their GE Smallworld GIS. Customer support for every line of code written. Used Python, Django, PostgreSQL/PostGIS, SQLite, JavaScript, jQuery, C# .NET, Balsamiq, GE Smallworld, Magik, Oracle Spatial, SQL, Java, Emacs.

- Created architecture for product including web front/back end and mobile offline data collection and syncing.
- Designed and implemented syncing solution for client databases that used different technology than the server.
- Designed mobile mapping and data collection user experience based on time spent with users in the field.
- Implemented issue tracking for all product ideas, bugs and testing which was adopted organization-wide.
- Improved maintenance of multiple product versions by leveraging Subversion branches and tags.
- Created automated tools for managing multiple development environments for multiple customers.
- Designed data model for custom data collection, audit history, and style system for customizable maps.
- Wrote code that processed tens of thousands of geometries per second on an inexpensive cloud VPS.
- Implemented installer, job scheduler, data importer/exporter, web services, and web map interface.
- Designed feature to compensate on the fly for temporarily inaccurate GPS.
- Reverse-engineered gas detector data protocol so customers could log previously unavailable data.
- Designed app to record/visualize field data in real time with smaller budget than legacy product it replaced.
- Created tools for street name aligning and map transforming for small utilities that partially automated hard-to-automate tasks, balancing the need to decrease development cost and decrease manual effort.

## Education

Sep 2003 - May 2007, **B.S. in Computer Science**, University of Maine, Orono ME