Miles Crawford

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Summary

Effective technology leader with twenty years experience building software and leading engineering teams. Direct and open communicator with a bias towards integrating multiple perspectives. Comfortable managing high-performing teams, goal-setting, technology budgets, and relationships with senior leadership.

- Skilled at defining engineering objectives/roadmaps and leading technical teams to achieve them.
- Experienced in interviewing for, hiring, and managing diverse and effective engineering teams with positive, growth-oriented cultures.
- Able to define visible team velocity and operational stability goals - and balance the two.
- Capable of data modeling and schema design in both relational and document-oriented datastores.
- Proficient at designing, building, and guiding the creation of scalable architectures, including batching, streaming, and request-handling systems.
- Technology strengths: AWS, Python, Java, Relational and Document DBMS, Scala, Perl, Javascript, Linux, HTML, CSS.

Employment Experience

Director of Engineering - Semantic Scholar, Allen Institute for Artificial Intelligence
February 2016 - February 2020
- Grew the technical team from 5 to 20 as team's scope increased, including other engineering managers.
- Coached and advocated for engineer career growth, from intern to principal level.
- Led architecture redesign that allowed the growth of Semantic Scholar's corpus of academic papers to over 200 million entries, covering all branches of peer-reviewed science.
- Managed the web application team as it built the Semantic Scholar website, supporting millions of monthly active users.
- Worked with senior leaders to develop product, technology, and organizational roadmaps.
- Managed a multi-million dollar AWS infrastructure budget.

Senior Software Development Engineer, Amazon.com/IMDb
July 2009 - June 2014
- Lead engineer on IMDb's Platform Team, responsible for services that supported all IMDb applications.
- Designed and implemented IMDb's service-oriented, Java-based architecture.
- Created multiple high-scale, highly-available backend data services based on Amazon Web Services.
- Coordinated the cross-team communication required to design and drive adoption of new services.
- Performed design reviews, code reviews, and mentorship of junior developers.

Software Engineer, University of Washington, Learning and Scholarly Technologies
July 2004 – July 2009
- Designed and developed a suite of educational web applications for a campus-wide audience.
- Configured and maintained production web, application and database clusters for scalability and high availability.
- Nominated for the University's Distinguished Staff Award for leading the design of the University's electronic grading system, a RESTful web service.
- Integrated with central University applications and web services, both as a data provider and consumer.