BOA

BERKELEY ONLINE ADVISING

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SCOPE & IMPACT

Develop a secure, highly scalable, and usable platform that integrates analytical insights with relationship and planning tools for advisors of large cohorts and the students they support.

"... BOA has changed the way that we work with our students...(BOA) is a dream to use and my staff feel supported and empowered to successfully assist their students."

—**Sharon Mueller**
Director of Advising and Policy
Engineering Student Services

METRICS

- Over 800 academic advisors and student success staff have BOA access
- 30,000 active undergraduates + 300,000 inactive or graduated students
- Advising notes from multiple sources in one place **for the first time**

BOA PARTNERSHIPS & SCHEDULE

Athletic Study Center (ASC) Pilot	*Spring 2018*
College of Engineering Pilot	*Fall 2018*
Letters & Science Undergraduate Launch	*Summer 2019*
Centers for Educational Equity & Excellence, Division of Equity & Inclusion	*Fall 2019*
Undergraduate Campus Launch	*Fall 2019*

BOA TEAM

- First central IT-supported cloud native implementation
- Mature Agile development methodology
- Full DevOps process
- Experienced and intentionally small team for efficient, nimble, and mission-focused work

BOA SPONSORS

- **Jenn Stringer**, Deputy Chief Information Officer & Assistant Vice Chancellor IT
- **Catherine Koshland**, Vice Chancellor for Undergraduate Education
- **Bob Jacobsen**, Dean of Undergraduate Studies in the College of Letters and Science

BOA TECHNOLOGY

Berkeley Online Advising (BOA) is a native cloud application deployed to AWS. Its underlying data is aggregated from multiple, disparate campus sources into S3 buckets, and transformed into Redshift views. The technology delivers enterprise scalability through parallelization. It is highly flexible, enabling rapid addition or swap out of services and technologies.

Data infrastructure can extend to support many additional projects and initiatives: applications, data analytics, AI, ML.

Application Programming Languages:	Python, Vue.js Javascript framework
Application Environment:	EC2, Postgres database
Data Sources:	SIS, EDW, LDAP, Canvas (bCourses) and other academic technology tools, and previously siloed and unique departmental sources.
Hosting costs:	$2500-3000/mo., includes application hosting and S3-based data lake and Redshift warehousing technology. Separating storage from compute layers reduces costs.

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