

RYO MAYES – CURRICULUM VITAE

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EDUCATION

UC BERKELEY

Bachelor of Arts in Cognitive Science

Concentration in Computer Science

May 2017

WORK EXPERIENCE

SACRAMENTO KINGS

Basketball Analytics Intern

Filled roles of Software Developer, Data Engineer, and Data Analyst in the first season of the Sacramento Kings' new analytics team, guided by VP of Strategy & Analytics Luke Bornn, former Harvard and Simon Fraser professor of statistics.

- Developed proprietary web apps that coupled video with spatial and temporal shooting data to aid coaching staff and front office with player development and strategic decision making
 - Built a data pipeline for feeds that monitored player activity in training facility
 - Helped construct predictive linear models to assess player career trajectories
 - Compiled a 100,000 row player table with 13 ID mappings from 10 different vendors
 - Smoothed ETL processes for 8+ sources that provided motion tracking, game logging, and player and team data
 - Wrote a web scraper to scrape the entirety of NBA.com's team and player data
 - Participated in trade and strategy conversations
 - Wrote reports that interpreted our auto-generated postgame statistics and visualizations to coaching staff and front office
- Technologies/Languages used: R, Python, AWS S3 & EC2, PostgreSQL, Git, Javascript, Powershell*

August 2017 – January 2018

UC BERKELEY STUDENT AFFAIRS INFORMATION TECHNOLOGY

Lead Desktop Engineer,

Desktop Engineer

- Managed over 1,500 staff computers in UC Berkeley SA-IT with industry-standard IT software, including Microsoft's Active Directory and IBM's BigFix
- Wrote Powershell, BigFix, batch and bash scripts, created software deployment packages and operating system images, and oversaw large-scale projects affecting customer workstations
- Supervised and delegated responsibilities to 2 other members of the Desktop Engineering team

November 2015 – May 2017

April 2015 – November 2015

THE DAILY CALIFORNIAN

Projects Developer

- Developed interactive graphics and news applications
- Helped write stories for the online edition of The Daily Californian

February 2016 – August 2016

RESEARCH EXPERIENCE

SOLANO LABS

User Experience Consultant

- Redesigned the new user onboarding process of Solano Labs' developer-targeted SaaS platform
- Researched competitors and surveyed 20+ DevOps professionals to determine areas of concern

August 2014 – December 2014

BERKELEY CENTER FOR NEW MEDIA

Research Assistant

- Designed and ran trials for user testing for research on FabSense – a wearable inertia measurement unit, intended for use in a remote DIY setting (under graduate student Tim Campbell and professor Eric Paulos)
- Wrote bash scripts to write accelerometer trial data to csv files

June 2014 – December 2014

ORGANIZATIONS

BERKELEY INNOVATION

August 2014 – December 2014

- Worked in a 3-person team doing pro-bono UX consulting for startups

CAL CLUB TENNIS

August 2013 – May 2017

- Co-President (Senior year)
- Created and maintained californiaclubtennis.com
- Won USTA TOC National Championship in 2014 and 2015

PUBLICATIONS AND PAPERS

Towards Digital Apprenticeship: Wearable Activity Recognition in the Workshop Setting
With Tim Campbell, Jonathan Harper, Bjoern Hartmann, and Eric Paulos, EECS Department,
University of California, Berkeley, Tech. Rep. UCB/EECS-2015-172, July 2015

RELEVANT COURSEWORK

COGSCI C131 – Computational Models of Cognition
CS61A – Programming Structures
CS61B – Data Structures
CS61C – Machine Structures
CS70 – Discrete Mathematics and Probability Theory
CS188 – Introduction to Artificial Intelligence
DATA8 – Introduction to Data Science
STAT 140 – Probability for Data Science
MCB 160 – Neurobiology
ME 98 – Human-Centered Design
PSYCH 160 – Perception

PROGRAMMING AND RESEARCH SKILLS

Proficient in: R, Python, Java, HTML/CSS, Git, Jupyter, Microsoft Office
Experience in: SQL, C/C++, Bash, PowerShell, Javascript, JQuery, Adobe Photoshop and Illustrator
Exposure to: Ruby on Rails, PHP, Angular.js, Apache Spark and Hadoop

INTERESTS

Traveling, homebrewing, food, photography, writing, tennis, basketball, data visualization, journalism, education, public health