

Alex Nakagawa

alex.nakagawa@berkeley.edu · (626) 375-4355
linkedin.com/in/alexnakagawa · github.com/alexnakagawa · alexnakagawa.me

EDUCATION

University of California, Berkeley

Berkeley, CA

B.A. Data Science | Minor in Industrial Engineering & Operations Research Expected: May 2020

Organizations: Colford-Hubbard Research Group (Undergrad. Student Researcher), Data Science Society @ Berkeley (VP of Consulting), California Lightweight Rowing (Mens' Team Captain), Regents & Chancellors Scholars Association (Scholarship)

Classes: Data Structures & Algorithms, Data Science in Venture Applications, Probability for Data Science, Computer Architect., Sports Technology, Industrial Database Systems, Stochastic Processes, Industrial Design & Ergonomics, Linear Programming

WORK EXPERIENCE

UCB Graduate School of Public Health

Berkeley, CA

Undergraduate Student Researcher

Sep 2019 - Current

Healthy Birth, Growth and Development knowledge initiative

- Currently an Undergraduate Research software developer for the open-source Targeted Learning statistical framework in R

UC Berkeley Division of Data Sciences

Berkeley, CA

Product Management Intern

Dec 2018 - Present

External Pedagogy Global Adoption Student Lead

- Conducted communication with 100+ international universities to make data science education more accessible in the classroom by managing teams in content production for three webpages and conducting user research on Berkeley MOOCs
- Grew team from three student-employees to eight as of this semester, managed workflows through JIRA and implemented adoption strategies for marketing educational materials to community colleges and spoke at numerous data conferences

National Basketball Association (NBA)

New York, NY

Data Science Engineer Intern

Jun 2019 - Aug 2019

Player Tracking Data

- Improved data pipelining frequencies for player tracking in real-time through Google Cloud Functions and Pub/Sub to receive notifications from HTTPS endpoints from daily batches to second-by-second streaming from Elastic Cloud Storage
- Calculated 10 features to augment player tracking data to determine ball screen candidates using SQL and Javascript queries and passing into BigQuery and AutoML for training. Ran multinomial logistic regression through local development

Google

Mountain View, CA

Student Developer Fellow

Jan 2019 - Apr 2019

NCAA March Madness

- Selected as a student developer to create statistical models and calculate probabilities in BigQuery and Colab in real-time advertisements for Google Cloud Platform during March Madness season, work published on Google website and TV ads
- Led effort for initial extraction, transformation, and loading of over 300 GB of historical data using SQL into Jupyter kernels

PROJECTS

Data Science Modules Textbook

Current

Textbook Editing & Online Development

- Co-authored and edited new online textbook titled "Modules: Data Science for the Social Sciences", showcasing the work of the Data Science Education Program's developers through the Jupyter Book library, Markdown and Jupyter plug-ins
- Determined licensing for educational materials within the book, presented materials at data science pedagogy workshops

Asian Athlete Data Analysis

Jul 2019

Web Development / Data Visualization

- Self-taught Scala language in Scala.js framework to develop Progressive Web Application to highlight sports athletes with Asian ancestry/nationality. Learned control flow and stateful UI development, as well as backend with Google Cloud
- Managed database schema in Datastore for fast read/write access, created data visualizations through native chart libraries

Clubhouse (Cal Baseball)

Jan 2019

Project Lead

- Drove development of new sabermetrics web application for the Head Coach of the Mens' Baseball team using GCP BigQuery, App Engine to give game-by-game recommendations for batting order, pitch grading, and other important stats
- Integrated agile developer workflows through Slack and Trello, drafted go-to market strategy, value proposition, pitch decks

SKILLS & INTERESTS

Languages: Python, SQL, R, Java, Scala, AMPL

Software: NoSQL (MongoDB), Google Cloud Platform (BigQuery, Kubernetes, Pub/Sub, Cloud Functions, Compute Engine, Dataflow, Stackdriver), AWS (S3, Sagemaker), JupyterLab Notebooks, Apache Spark, Design (Adobe InDesign, Figma, Notion)

Certifications: Google - Associate Cloud Engineer; UC Berkeley - Official Certificate in Entrepreneurship & Technology

Interests: social impact (financial literacy, healthcare), Hawaiian culture, rock climbing, scuba diving, volleyball